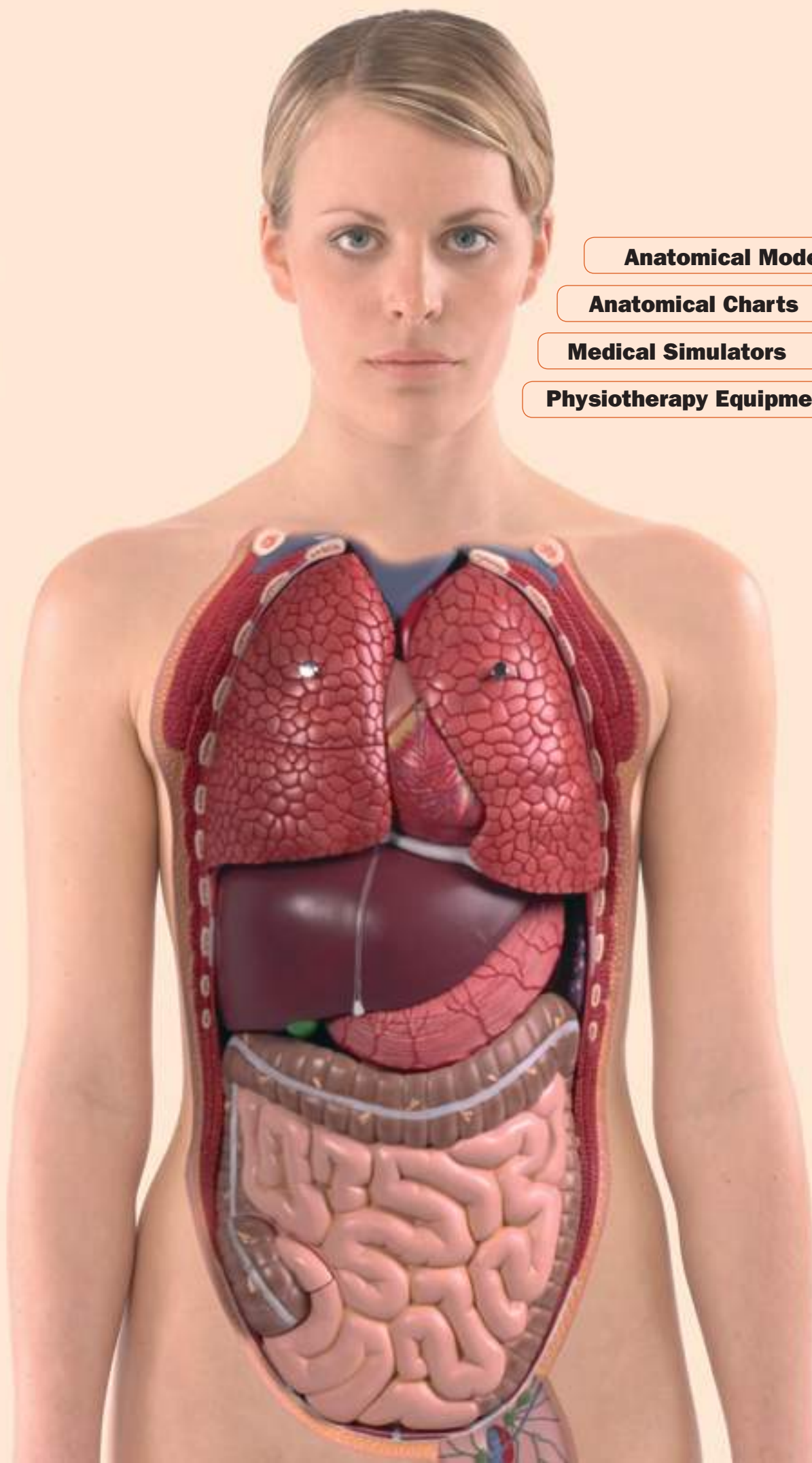


# CATALOG 14



**Anatomical Models**

**Anatomical Charts**

**Medical Simulators**

**Physiotherapy Equipment**



# BESTSELLER



## **School Skeleton „Ben“**

First class actual cast of a real human skeleton in life size. All bones are molded separately and all structures, fissures and foramina are present. The skeleton is manufactured after our strict quality regulations and is long lasting even in daily use. All bones are connected with strong steel wires and a massive 5-spoke safety roller stand makes the model stable. The three-part skull has a new kind of skull cap fixation with magnets preventing the skull from forming a gap. The skull structures are very detailed, the teeth are molded separately. Arms and legs can be taken off, legs can be separated at knee and ankle. The perfect model for customers looking for good value for money, solid quality at a reasonable price. Ideal for Schools and Students. Joints can be disarticulated with simple screw connections.

**Weight: 12 kg, size: 170 cm with stand**

**Ref.no. 2950**

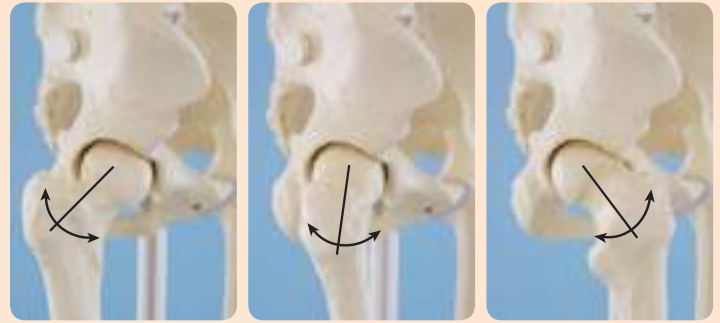


## EZ-skeletons

All EZ-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 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.

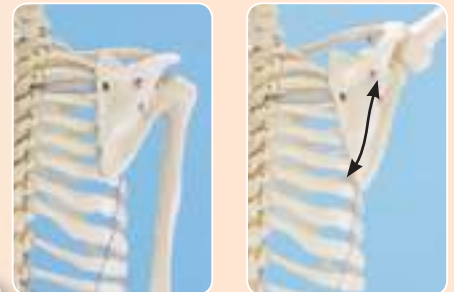
**New**

All EZ-skeletons have sliding joints without metal parts. Joint surfaces slide directly on each other.



### Sliding joints

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



### Movable shoulder blades

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



### Three-part skull

For all skeletons, the skull can be dismantled in three parts into roof of skull, base of skull and mandible. The skull has a new kind of skull cap fixation with magnets preventing the skull from forming a gap.

### Flexible ankle joint

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







**Our most frequently sold skeleton,  
good value for money!**

### **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**

### **Accessories: Foot skeleton, mounted on rubber band**

You may have the feet of the skeleton models mounted on rubber band to allow demonstration of the rolling motion.

Just order this option additionally:

**Foot right, mounted on rubber**

**Ref.no. 3018R**

**Foot left, mounted on rubber**

**Ref.no. 3018L**

*(not available for miniature skeletons)*



**3018**



### **Miniature-Skeleton “Patrick”**

Scaled down reproduction of a human skeleton in 1/2 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**



### **EZ-Therapy skeleton**

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 -postures 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.



3014

3014



## 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 convey 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**

### Accessories: Foot skeleton, mounted on rubber band

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

**Foot right, mounted on rubber**

**Ref.no. 3018R**

**Foot left, mounted on rubber**

**Ref.no. 3018L**

*(not available for miniature skeletons)*



## Miniature-Skeleton "Paul", with moveable spine

Scaled down reproduction of a human skeleton in 1/2 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.

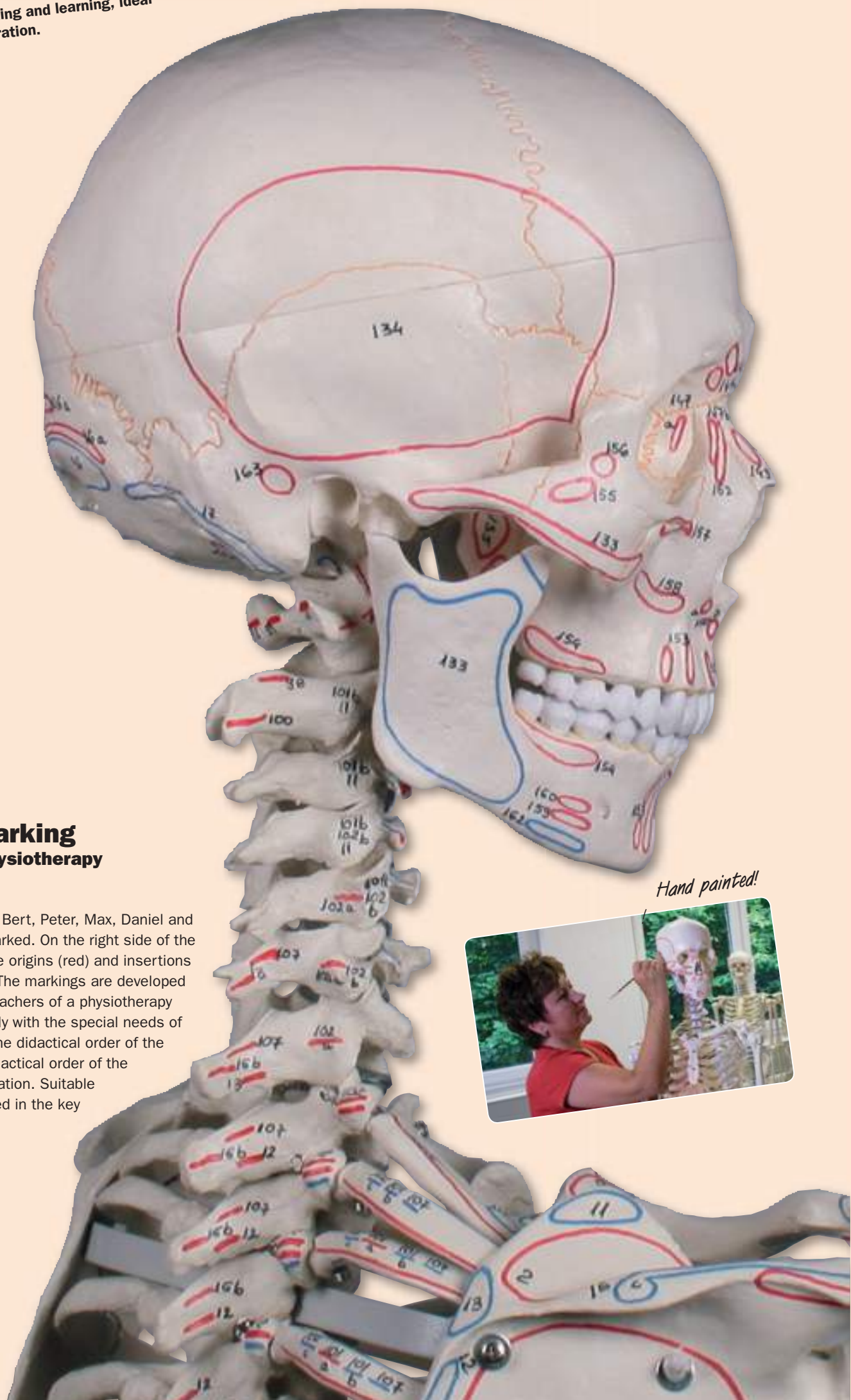
**Size: 84 cm**

**Weight: 1.2 kg**

**Ref.no. 3040**



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 are muscle marked. 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.

*Hand painted!*



### Skeleton "Arnold"

Based on the 3001 model, this skeleton offers in addition **marking of muscle origins (see page 6) and insertions.**

**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**



### 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 colour and described in an key card. Size without stand 81cm. The model can be easily removed from the stand.

**Ref.no. 3035**

### Skeleton "Peter"

This therapy skeleton offers **marking of the muscle origins (see page 6) 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
- Fully moveable vertebral column with flexible intervertebral discs and emerging spinal nerves
- Marking of muscle origins and insertion points on one body side

**Size: 176 cm**

**Weight: 9.5 kg**

**Ref.no. 3015**



### 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 colour and described in an key card. Size without stand 81 cm. The model can be easily removed from the stand.

**Ref.no. 3045**

### Accessories: Foot skeleton, mounted on rubber band

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

**Foot right, mounted on rubber**

**Ref.no. 3018R**

**Foot left, mounted on rubber**

**Ref.no. 3018L**

*(not available for miniature skeletons)*







### Skeleton "Otto"

Based on the 3001 model, this skeleton offers in addition **the ligamentary apparatus** of the shoulder, elbow, hip and knee.

#### 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: 9.5kg**

**Ref.no. 3004**



### Skeleton "Toni"

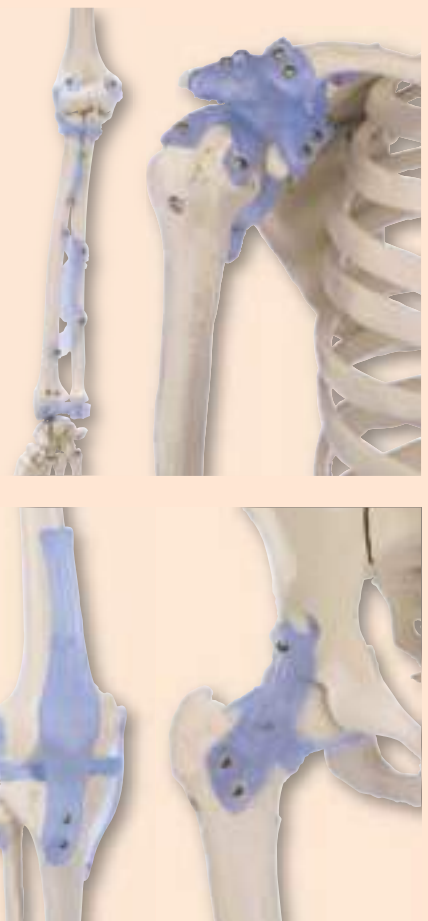
This therapy skeleton offers **the ligamentary apparatus** of the shoulder, elbow, hip and knee in addition to the **moveable vertebral column**.

#### 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
- Fully moveable vertebral column with flexible intervertebral discs and emerging spinal nerves
- Articular ligaments of the knee, hip, elbow and shoulder on one body side

**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.



### Accessories:

#### Foot skeleton, mounted on rubber band

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

**Foot right, mounted on rubber**

**Ref.no. 3018R**

**Foot left, mounted on rubber**

**Ref.no. 3018L**

*(not available for miniature skeletons)*



*Hand painted, with manual and bibliography!*



### 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.

### Skeleton "Bert"

Combination of the 3004 and 3008 models offers **marking of muscle origins and insertions** on one half of the body in addition to the articular ligaments in the shoulder, elbow, hip and knee.

#### 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

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

**Ref.no. 3010**

### Skeleton "Max"

This therapy skeleton combines all equipment versions in one as a top-of-the-range model. This model offers the **articular ligaments** and **marking of the muscle origins and insertion points** 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
- Fully moveable vertebral column with flexible intervertebral discs and emerging spinal nerves
- Articular ligaments of the knee, hip, elbow and shoulder on one body side
- Marking of muscle origins and insertion points on one body side

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

**Ref.no. 3016**

**New**

### 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.

**Ref.no. 2700**



### 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.

**Ref.No. 2870**



### 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 colouring 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**



### Fetus Skeleton, 30. week

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

**Size: approx. 40 cm**

**Ref.no. 2850**





### **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**

### **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

**3061** vertebrae (set of 24 items)

**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)



### **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**



**! We supply Workshop bones made of special material for surgical training on request.**

### **Transport bag for bones**

Ideal for carrying and storing your bone collection.

**Size: 65 x 30 x 30 cm**

**Weight: 0.3 kg**

**Ref.no. 3022**





### 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**



### Male pelvis with sacrum and 2 lumbar vertebrae

Natural casting of an adult male pelvis. Wings of ilium, sacrum and flexibly mounted L1 and L2. The sacrum is removable and the movements in the iliosacral joint can be demonstrated.

**Ref.no. 4056**



### 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**

### 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**

### Female pelvis with sacrum and 2 lumbar vertebrae

Natural casting of an adult female pelvis. Wings of ilium, sacrum and flexibly mounted L1 and L2. The sacrum is removable and the movements in the iliosacral joint can be demonstrated.

**Ref.no. 4058**

### 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**



### 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**



### 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**

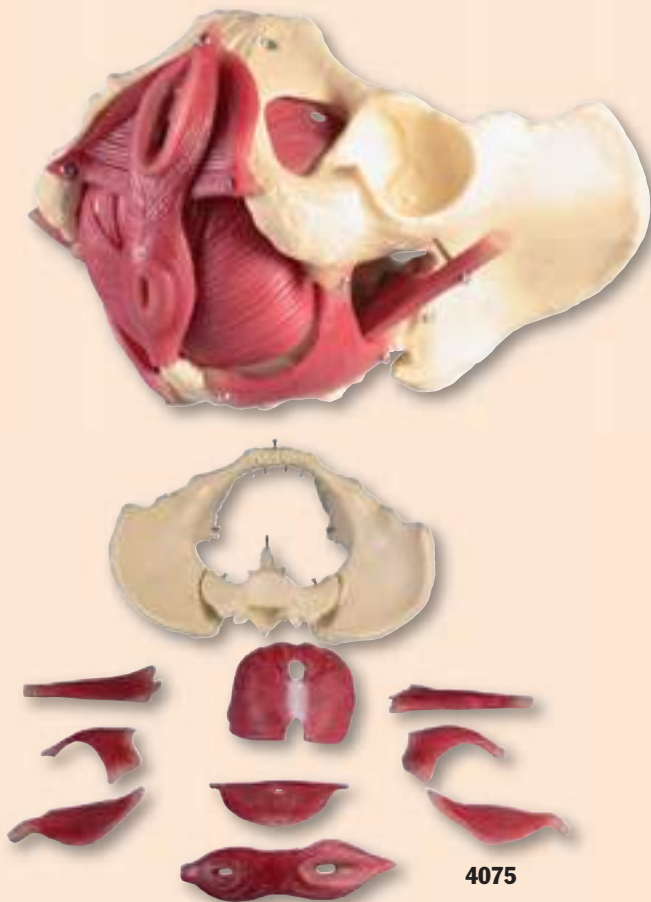


### Female pelvis with pelvic organs

This single-piece life-size model is a very useful tool to study the female pelvic anatomy and to understand the relationship between pelvic bones, muscles and female genital organs. It shows a complete skeleton of a female human pelvis associated with ligaments, muscles, internal and external female urogenital organs. Both the urinary bladder and the uterus can be opened along the longitudinal plane to show their inner anatomy. All the structures are reproduced with great detail and accuracy; the model comes with a key card. Life size.

**Ref.no. L131**





### **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:**

**Obturator 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 the 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 child-birth 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**

### **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**

### **Male pelvis with pelvic floor musculature**

Model as 4070, but male version. It has a removable bladder with prostate and seminal vesicle. The muscle layers are in two parts. The model is life size.

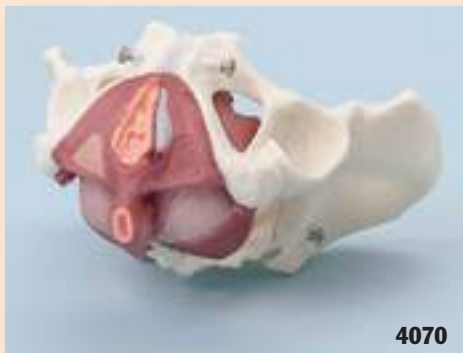
**Ref.no. 4070M**

### **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**



**EZ 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.



**Info**

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







### 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.

**With removable stand Ref.no. 4009**

**Without stand Ref.no. 4006**

**Size: 70 cm**

**Weight: 1.8 kg**



### 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 colour 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**



### 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**



### Vertebral column with removable pelvis, didactical coloured

Highest quality natural casting of a human vertebral column with removable pelvis. The cervical, thoracic and lumbar spine is finished in different colours for better differentiation. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The 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**



### Standard 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**

**Version with stand Ref.no. 4032**

**Version without stand Ref.no. 4024**



### 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: 65 x 30 x 30 cm**

**Weight: 0.3 kg**

**Ref.no. 3022**



### Standard – 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**

**Version with stand Ref.no. 4033**

**Version without stand Ref.no. 4033/1**



**! Ideal size for the desktop!**



### Miniature Spinal Column

Scale model of the human spinal column, approx. 1/2 life size. All bones are individually represented. This fully moveable model shows the vertebrae, the segment at the base of the skull, pelvis, intervertebral disks, 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**



### 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:** 90 x 20 x 20 cm

**Weight:** approx. 3 kg

**Ref.no.** A150



### 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:** 95 x 20 x 20 cm

**Weight:** approx. 3 kg

**Ref.no.** A151



### Flexible vertebral column with femur heads and muscle insertions

A flexible life size vertebral column including the occipital plate; cervical, thoracic and lumbar vertebrae; sacrum; coccyx; and complete pelvis with symphysis; and removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches and prolapsed L3–L4 intervertebral disc. The left side of the skeleton shows the points of origin (red) and the points of insertion (blue) of the muscles. Mounted on a stand for hanging.

**Size:** 95 x 20 x 20 cm

**Weight:** approx. 3 kg

**Ref.no.** A152



### Flexible vertebral column with removable sacral crest

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. The sacral crest and the coccyx are removable to show the sacral portion of the spinal cord. Mounted on a stand for hanging.

**Size:** 90 x 20 x 20 cm

**Weight:** approx. 3 kg

**Ref.no.** A153



### Flexible vertebral column with open sacrum and femur heads

A flexible life size vertebral column consisting of the occipital plate; cervical, thoracic and lumbar vertebrae; sacrum; coccyx; complete pelvis with articulated, removable femur heads. Additional features include representations of the vertebral arteries, spinal nerve branches, and a prolapsed L3–L4 intervertebral disc. The sacral crest and coccyx are removable to show the sacral section of the spinal cord and associated nerve branches. Mounted on a stand for hanging.

**Size:** 95 x 20 x 20 cm

**Weight:** approx. 3 kg

**Ref.no.** A154

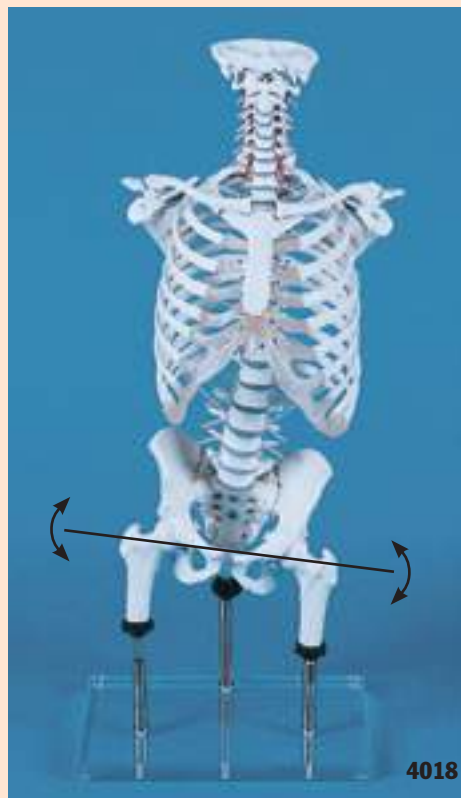




### **Vertebral column for demonstration of malpositions**

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**



### **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**



### **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**

### **Laserow vertebral column - tactile model**

This innovative vertebral column model developed by Dr. Kaj Laserow gives therapists the possibility for the first time of rendering the stress which the vertebral column exerts on the intervertebral discs when flexing perceptible to their patients. The patient can place his/her finger in a special palpation orifice in the intervertebral disc and feel the enormous stress exerted on the intervertebral disc during flexing of the vertebral column. This highly impressive demonstration is helpful particularly during back training courses, in physiotherapy practices and in occupational medicine, in creating awareness of the necessity of behaviours that are gentle on the vertebral column. Since intervertebral disc disorders are now very widespread, this demonstration model is indispensable for any therapist.

**Size: 39 cm, Weight: 1.5 kg**  
**Ref.no. 4050**





**A156**

## **Skeleton of the human trunk**

**A life size plastic human trunk skeleton consisting of the following features:**

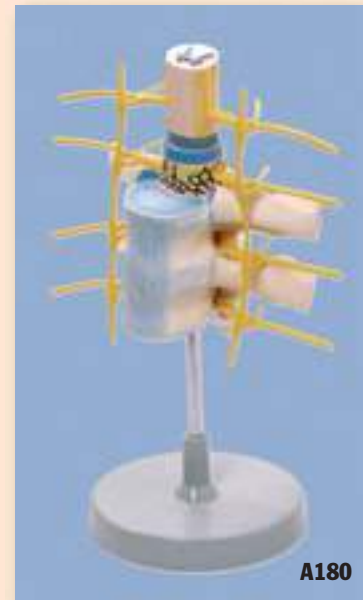
- Complete pelvis including the ischium, ilium and pubis; sacrum; coccyx; and the symphysis
- Complete spinal column with ribs and sternal features
- Clavicle and scapula

Mounted on a stand for hanging.

**Size: 37 x 23 x 94 cm**

**Weight: approx 4 kg**

**Ref.no. A156**



**A180**

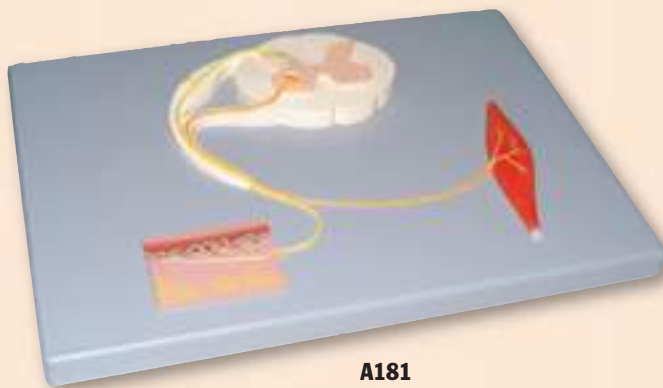
## **Thoracic Vertebrae with spinal cord**

7X life size. Included are two thoracic vertebrae with rib ends and costovertebral articulations. The spinal cord is sectioned transversely, showing details of the grey and white matter, spinal nerve branches and the spinal ganglia. Mounted on stand.

**Size: 19 x 15 x 35 cm**

**Weight: approx. 0.6 kg**

**Ref.no. A180**



**A181**

## **Reflex Arc**

This model shows the sensory, neural and motor elements of a somatic reflex arc. Mounted on board.

**Size: 53 x 38 x 5 cm**

**Weight: approx. 1.2 kg**

**Ref.no. A181**



**A182**

## **5th cervical vertebra**

7X life size. This model shows in great detail the structure of the 5th cervical vertebra; a transverse section of the spinal cord with grey and white matter; the nerve branches; the spinal ganglion and the blood vessels. Mounted on board.

**Size: 40 x 26 x 10 cm**

**Weight: approx. 1.3 kg**

**Ref.no. A182**



7577



### 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



4067

### 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



R10116

### 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

### 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



7576



4047

### 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





### **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**

**Without stand Ref.no. 4073/1**

### **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**

**Without stand Ref.no. 4060/1**

### **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**

**Without stand Ref.no. 4036/1**



### **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.

**Ref.no. 4098**



### **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**



### **Lumbar spine with pelvis**

5 lumbar vertebrae with sacrum, additionally with removable pelvis.

**Ref.no. 4040**



### **Lumbar spine with pelvis and femoral stumps**

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

**Ref.no. 4045**



### **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**

### **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**



### 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**



### 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**



### Head articulations, 2 x enlargement

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**

### 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**



### Bone Structure Model

This model is composed of 4 parts and shows different structures of the human bones. The external structure of the femur with periosteum, blood vessels, spongy bone, compact bone and haversian system. Mounted on board.

**Size:** 53 x 38 x 8 cm

**Weight:** approx. 1.3 kg

**Ref.No. A179**

### 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**







4030

### 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**

**New**



4062

### 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**



4078

### 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**

**New**

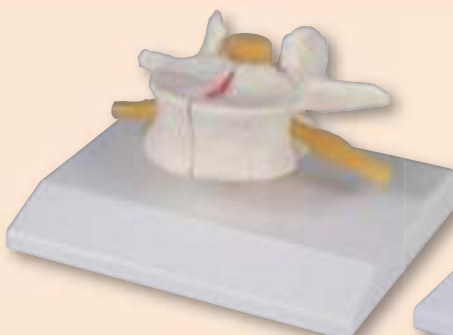


### Osteoporosis Stages, disc model

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

**Diameter 10 cm, thickness 4 cm**

**Ref.no. 4065**



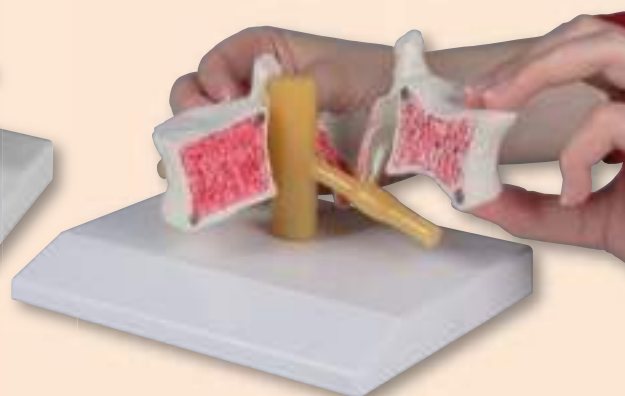
4068

### Osteoporosis vertebra, 2 times life size

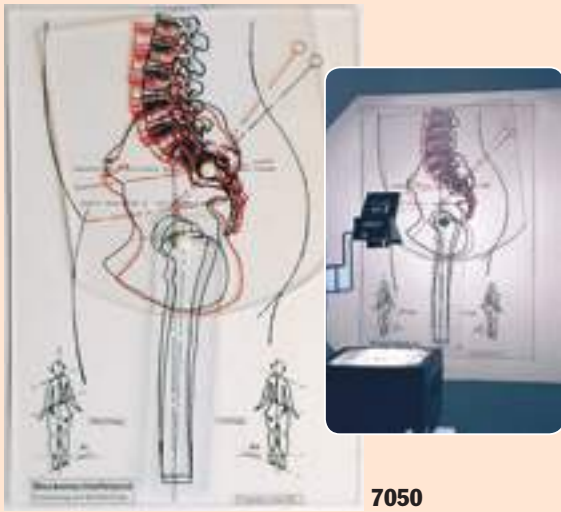
This model of a human lumbar vertebra is median sectioned and shows healthy bone structure on one side and osteoporotic bone structures on the other side. The model is assembled magnetically and can easily be removed from the stand.

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

**Ref.no. 4068**







7050

### Model pelvic inclination – hip displacement

This unique model consists of three mobile Plexiglas components. By moving the wing of the ilium, the resulting shortening of the leg is clearly recognisable. The treating physician, physiotherapist or therapist can use this model admirably for patient information. With the aid of an overhead projector, inclination of the pelvis according towards AS (apparent lengthening of the leg) or PI (apparent shortening of the leg) can be easily represented.

**Ref.no. 7050**



W19007

### 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**



4055

### Prolapse Simulator

This unique simulator is the only one to demonstrate the principles of an intervertebral disc prolapse. If the vertebrae are pressed, a prolapse can be pressed out of the disc. The prolapse can be formed by compression and also by torsion as well as by combination of these movements. The model represents two lumbar vertebrae in about twice life size. This simulator is protected by international patents.

**Ref.no. 4055**





### Model skull, 3-part

Natural casting of a human skull. Can be dismantled into roof of skull, base of skull and mandible. All anatomical details are accurately reproduced. The teeth correspond to natural dentition with respect to tooth position and interdental spaces. The mandible is flexibly mounted. The mandible is flexibly mounted and removable. Magnetic connection between base of skull and skull cap.

**Size:** 20 x 13.5 x 15.5 cm

**Weight:** 0.7 kg

**Ref.no.** 4503



### Model skull, 3-part, numbered

Model as 4503, but in addition with numbering of the individual skull bones. Includes nomenclature.

**Size:** 20 x 13.5 x 15.5 cm

**Weight:** 0.7 kg

**Ref.no.** 4505



### Model skull, 3-part, with muscle marking

Model as 4503, but in addition with marking of the muscle origins and insertion points. Includes description.

**Size:** 20 x 13.5 x 15.5 cm

**Weight:** 0.7 kg

**Ref.no.** 4509



### Didactical skull, 3 part

Actual cast of a real human skull with calvarium cut and removable lower jaw. For easier understanding the individual skull bones are painted in different colours. A perfect model for learning the bony structures of the skull. All bones are numbered and listed in a key card.

**Size:** 20 x 14 x 16 cm

**Weight:** 0.7 kg

**Ref.no.** 4508



### 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.

**Size: 22 x 13 x 17 cm**

**Weight: 0.7 kg**

**Ref.no. 4513**

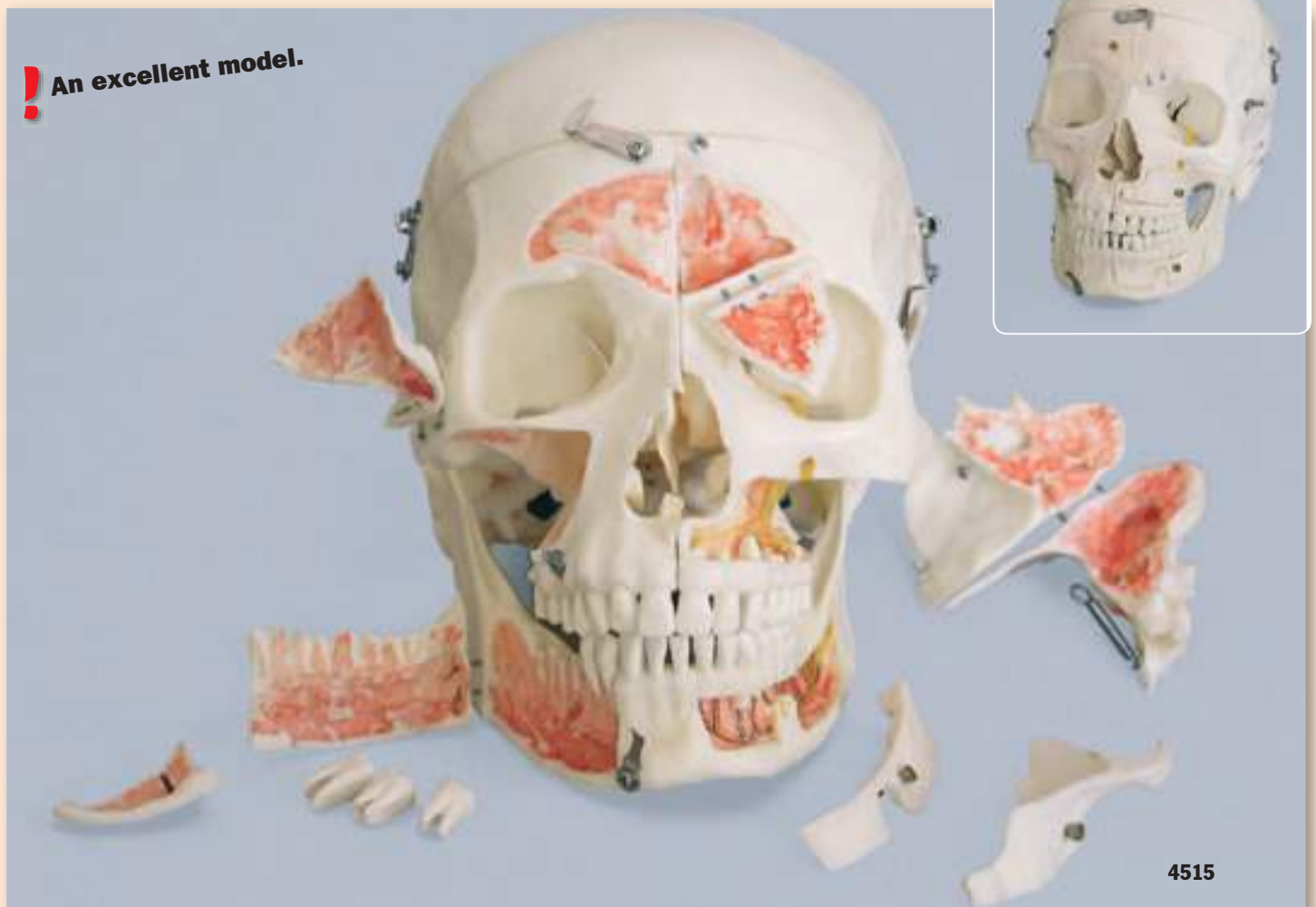


### Skull with musculature

This model is unique in the world and shows the main muscles of the head. The muscles are made of flexible material which means movements of the TMJ can be demonstrated. The skull is an actual cast of a real human skull. The teeth in the upper and lower mandible can be extracted and reinserted. The mandible is open and shows roots, spongiosa, nerve canal and an impacted wisdom tooth.

**Size: 22 x 13 x 17 cm**

**Ref.no. 4514**



### 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 colour. 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**





4710

### 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**



4715

### 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**



4721

### 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**



©2010

4739

### 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**



#### **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**



#### **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**



#### **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**



#### **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**



#### **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**



#### **Child skull, 1 1/2 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**



#### **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**



#### **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**



#### **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.

**40 ½ weeks**  
**40 weeks**  
**35 weeks**  
**34 weeks**  
**32 weeks**  
**31 weeks**

**Ref.no. 4742**  
**Ref.no. 4745**  
**Ref.no. 4746**  
**Ref.no. 4747**  
**Ref.no. 4750**  
**Ref.no. 4755**

**30 weeks**  
**29 weeks**  
**21 ½ weeks**  
**20 weeks**  
**17 weeks**  
**13 weeks**

**Ref.no. 4757**  
**Ref.no. 4760**  
**Ref.no. 4762**  
**Ref.no. 4765**  
**Ref.no. 4767**  
**Ref.no. 4768**



### 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**



### Fetus skull, 30. week

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

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

**Art.Nr. 4519**



### 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**





4532



### 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.

**Ref.no. 4532**



4512

### 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 roof of the skull is removable.

**Size: 23 x 16.5 x 17 cm**

**Ref.no. 4512**



4650

4650/1

### 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**



4516

### 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**



**BESTSELLER**



**4701**



**4708**

### **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 one of the main targets was to make the model easy to assemble and dismantle. 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. 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

**Super**  
Unique in the world!  
Magnetic connectors  
Easy to handle

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.

### **Anatomical version**

Model in natural bone colour.

**Ref.no. 4701**

### **Didactical version**

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

**Ref.no. 4708**



### **Customers reply about this product:**

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

**MTAR school of the University Hospital of Tuebingen**



### 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**

With stand **Ref.no. 6001S**

### Skeleton of the hand with bone numbering

Model as **6001**, but with additional numbering of the individual hand bones.

**Ref.no. 6002** (not pictured)

### Hand with lower arm

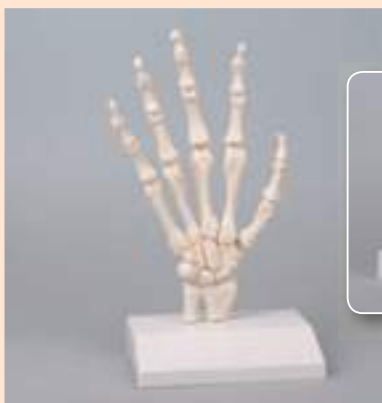
True to life casting of a skeleton of the human hand. All hand bones are individually mobile-mounted on wire. With radius and ulna. The rolling movements of the bones of the lower arm (pronation and supination) and movements of the hand joint can be demonstrated.

**Ref.no. 6008**

### Demonstration model finger mechanism

With built-in joints this model shows the range of motion of finger bones. Carpal bones are represented in one piece to make the model more stable.

**Ref.no. 6003**



**6003**



**Info**  
Sliding joints  
at the shoulder allow all  
natural movements.

**6016**

### 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 mobilemounted on wire.

**Ref.no. 6016**

### Skeleton of arm

Model as **6016**, but without shoulder girdle.

**Ref.no. 6012**



**6021**

### 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**

### Skeleton of arm with muscle marking

Model as **6021**, but without shoulder girdle

**Ref.no. 6020**



**6040**

### Hand, block model

Natural one-piece casting of a human hand. Representation of all structures and anatomical details. Particularly economically priced!

**Ref.no. 6040**





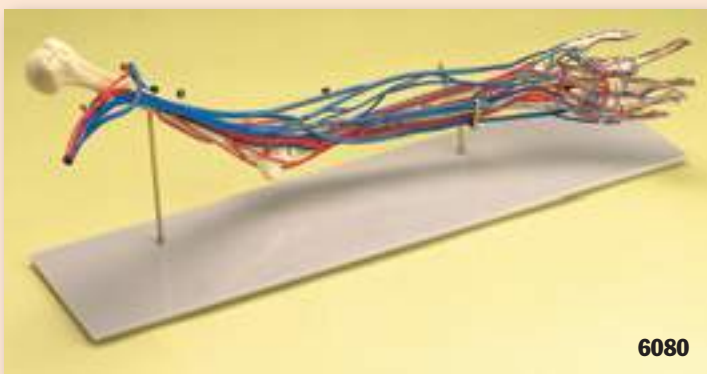
4566

### 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**



6080

### 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**



### 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**



6010

### Hand and Wrist Model

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

**Ref.no. 6010**

### Hand and wrist with Carpal tunnel syndrome

Full size solid cast of hand, wrist and forearm bones features: distal, middle and proximal phalanges, distal and proximal phalanges of the thumb, metacarpal bones, thenar muscle, palmar carpal ligament, median nerve, flexor digitorum superficialis and profundus tendons, triquetrum, pisiform, hamate, hook of hamate, Palmaris longus tendon, interosseous membrane, radius and ulna.

**Size: 29 x 9.5 x 3 cm**

**Ref.no. 6015**



6015



### Regional anatomy of the hand, 7 parts

This life-size model shows the anatomy of the hand with great accuracy and detail; the superficial layers can be removed at different levels to expose the inner structures. Muscles, blood vessels, nerves, tendons, ligaments and bones are well represented.

**Size: 11 x 13 x 33 cm, Weight: 0.5 kg**

**Ref.no. M61**



**M118**

### **Muscles of hand, 4 parts**

This life size model is composed of 4 parts. The palmar aponeurosis and the palmaris brevis can be removed to reveal the underlying network of muscles, tendons, vessels and nerves. A deeper palmar dissection allows observation of the palmaris longus tendon, the palmar carpal ligament, and the median nerve. Part of the thenar muscles can be removed to expose the superficial palmar branch of the radial artery. A superficial dorsal dissection shows ligaments, nerves and vessels. Mounted on stand.

**Size: 30 x 11 x 15 cm**

**Weight: approx. 0.2 kg**

**Ref.no. M118**



**M136**

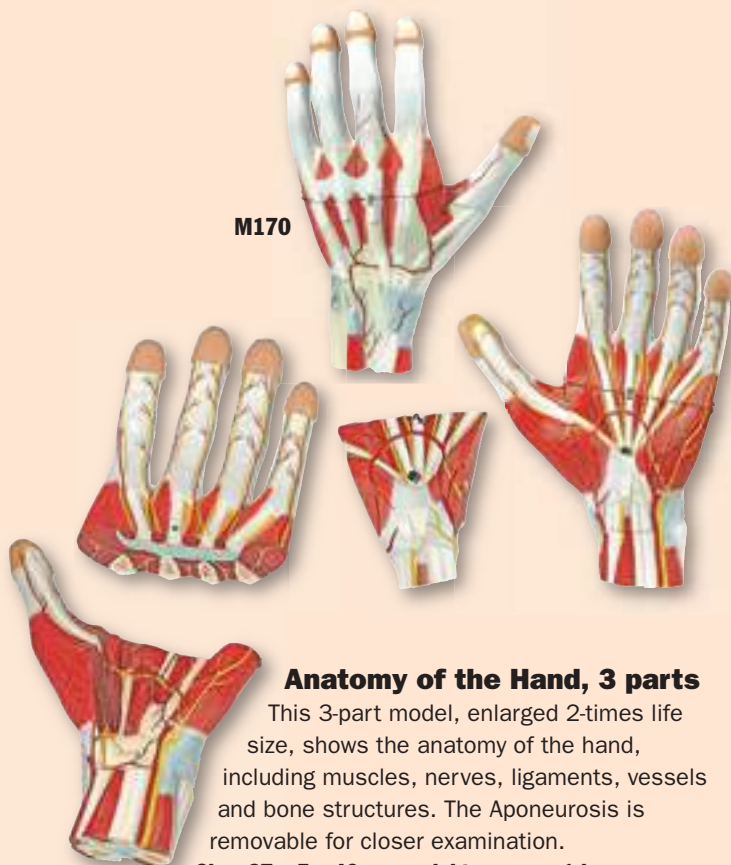
### **Muscles of the foot, 3 parts**

This life size model is composed of 3 parts. The plantar aponeurosis and the flexor brevis can be removed to show the underlying network of muscles, tendons, vessels and nerves. A deeper plantar dissection allows observation of the plantar muscles and plantar nerve branches. A superficial dorsal dissection shows ligaments, nerves and vessels.

**Size: 22 x 12 x 8 cm**

**Weight: approx. 0.6 kg**

**Ref.no. M136**



**M170**

### **Anatomy of the Hand, 3 parts**

This 3-part model, enlarged 2-times life size, shows the anatomy of the hand, including muscles, nerves, ligaments, vessels and bone structures. The Aponeurosis is removable for closer examination.

**Size: 27 x 5 x 40 cm, weight: approx. 1 kg**

**Ref.no. M170**



**M139**

### **Anatomy of the Foot**

This 9-part model shows significant structures of the foot such as muscles, nerves, vessels and ligaments.

**Size: 23 x 13 x 10 cm**

**Weight: 0.7 kg**

**Ref.no. M139**



**M130**



**M131**



**M132**

### Model feet

Life size model of a normal human foot showing bones, ligaments and muscles.

**Size:** 22 x 12 x 8 cm

**Weight:** ca. 0.6 kg

**Normal foot Ref.no. M130**

**Flat foot Ref.no. M131**

**Arched foot Ref.no. M132**



**M133**

### Miniature feet set

Normal foot, arched foot and flat foot in appr. 2/3 Life size.

Miniaturised set of Models **M130**, **M131**

and **M132**. as economic priced set.

**Size:** 17 x 7 x 10 cm, each, weight: 0.2 kg each

**Ref.no. M133**



**M137**



**M138**

### Section of foot

This model shows a human foot sectioned along the sagittal plane.

**Size:** 22 x 12 x 8 cm

**Weight:** approx. 0.7 kg

**Ref.no. M137**

### Muscles of foot

This life size model represents a superficial dissection of the foot with the primary muscles and ligaments.

**Size:** 22 x 12 x 8 cm

**Weight:** approx. 0.4 kg

**Ref.no. M138**





### Skeleton of foot

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

Without stand **Ref.no. 6050**

With stand **Ref.no. 6050S**

### Skeleton of foot, numbered

Model as **6050**, but with bone numbering

Without stand **Ref.no. 6051**

With stand **Ref.no. 6051S**



### Skeleton of foot with tibia and fibula insertion

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

Without stand **Ref.no. 6053**

With stand **Ref.no. 6053S**

### Skeleton of foot with tibia and fibula insertion, numbered

Model as **6053**, but with bone numbering.

Without stand **Ref.no. 6054**

With stand **Ref.no. 6054S**



**6053S**



### Skeleton of foot with tibia and fibula insertion, flexible

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

**Ref.no. 6056**

### Skeleton of foot with tibia and fibula insertion, flexible and numbered

Model as **6056**, but with bone numbering.

**Ref.no. 6057** (not pictured)



### 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**



### Foot, block model

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

*Particularly economically priced!*

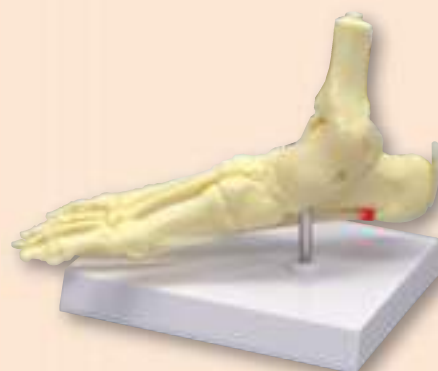
**Ref.no. 6060**



### Foot skeleton with ligaments

Foot skeleton flexibly mounted on wire. This functional model shows the important ligaments of the foot.

**Ref.no. 6058**



### Foot/Ankle – Plantar Fasciitis

Full size solid cast of ankle and foot bones features the plantar calcaneonavicular (spring) ligament with plantar fasciitis. Foot/ankle anatomy also includes: tibia, fibula, calcaneus, calcaneal (Achilles) tendon, deltoid ligament, lateral (collateral) ligament, plantar aponeurosis, cuneiform, phalanges, cuboid, navicular, and metatarsal bones.

**Size: 23 x 7 x 10 cm**

**Ref.no. 6055**



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



### **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**

### **Skeleton of leg**

Model as **6068**, but without half pelvis

**Ref.no. 6062**

### **Skeleton of leg with half pelvis and flexible foot**

Model as **6068**, but with a rubber-mounted foot for increased possibility of movement.

**Ref.no. 6069**

### **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**

### **Skeleton of leg with muscle marking**

Model as **6070**, but without half pelvis.

**Ref.no. 6071**

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

Model as **6070**, but with a rubber-mounted foot for increased possibility of movement.

**Ref.no. 6072**



4552

### 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 Ref.no. 4552**

**Without stand Ref.no. 4552/1**



4550

### 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**

**Without stand Ref.no. 4551**



4553

### Hip joint with ligaments

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

**With removable stand Ref.no. 4553**

**Without stand Ref.no. 4555**

**With stand and sacrum Ref.no. 4554**

*(not pictured)*



4556

### 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**

**Without stand Ref.no. 4557**



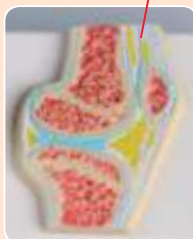
4522



4520



4523



### Miniature Joints with cross section

These joint models in about  $\frac{1}{2}$  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.

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

**Ref.no. 4522**

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

**Ref.no. 4520**

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

**Ref.no. 4523**





4662

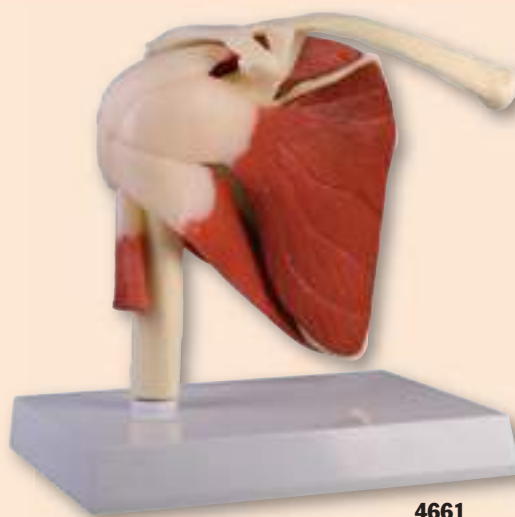
### **Knee Joint, life size, with muscles**

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: 820 g**

**Ref.no. 4662**



4661

### **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: 540 g**

**Ref.no. 4661**



4663

### **Knee 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: 740 g**

**Ref.no. 4663**



4569

### **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 1 piece.

**Size: 23 x 19 x 11, weight: approx. 0.4 kg**

**Ref.no. 4569**



4660

### **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.

**Ref.no. 4660**



### Knee-Implant-Model

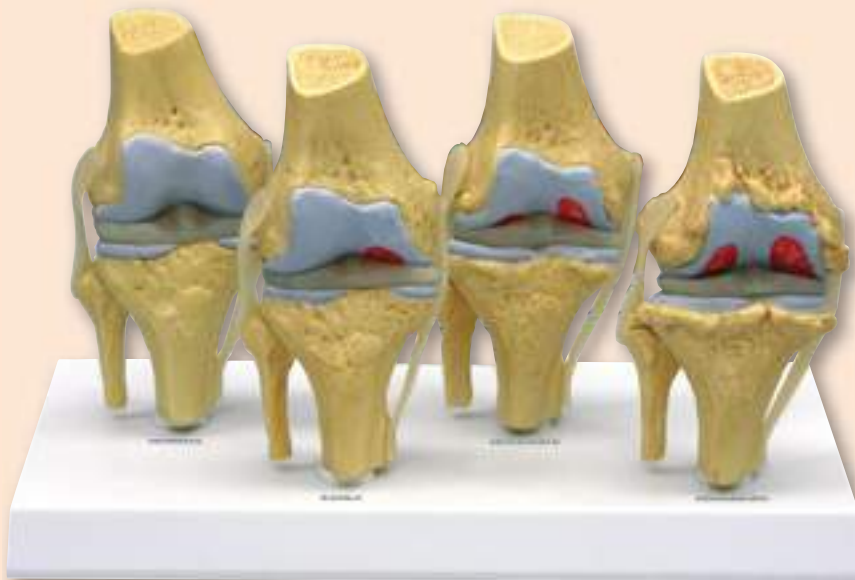
This impressive model shows three scaled down knee models. In addition to the healthy knee this model shows a diseased knee as well as a knee with knee implant. All models are movable, upper and lower leg can be separated. Supplied on Plexiglas stand.

**Size:** 34 x 11.5 x 16 cm, **weight:** 0.4 kg

**Ref.no.** 1125

**Info**

All models removable from the stand



### 4-stage Osteoarthritis Knee

Set of 4 knee models ( $\frac{3}{4}$  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



### Longitudinal section – model knee

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

**Ref.no.** 4570



### 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



1118

### 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



4567

### 4-stage osteoarthritis hip

Set of 4 hip models ( $\frac{1}{2}$  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

**Info**  
All models can be removed and disassembled



### Mini-Torso, dual sex, 16 parts

This half life size torso is an excellent tool for basic anatomy teaching.

#### Composed of 16 parts, as follows:

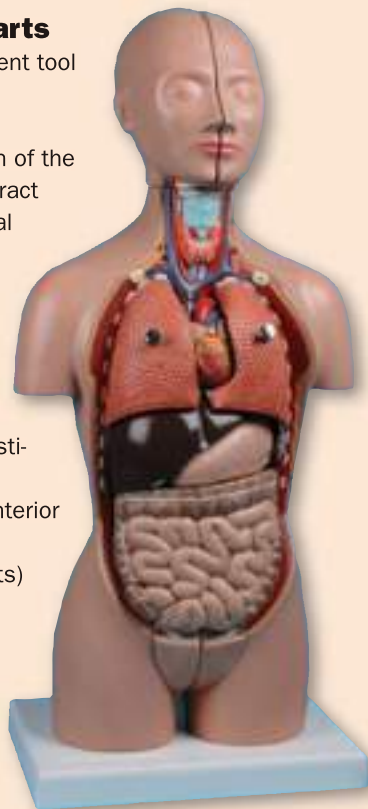
- Head (2 parts) showing a section of the brain and the upper respiratory tract
- Half of the brain, showing internal structures
- Two lungs
- Heart (2 parts) showing the atria, ventricles and valves
- Liver with gallbladder
- Stomach
- Single piece including small intestine, large intestine and pancreas
- Removable cover that exposes interior of caecum
- Male reproductive organs (2 parts)
- Female reproductive organs (2 parts)

Mounted on base

**Size:** 20 x 15 x 45 cm

**Weight:** approx. 2.1 kg

**Ref.no.** B123



B123



### Mini torso, unisex, 12 parts

This one-half life size torso is an excellent tool in basic anatomy education.

#### Composed of 12 parts, as follows:

- Head, divided in two parts, showing a section of the brain and the upper respiratory tract
- Half of the brain, showing internal structures
- Two lungs
- Heart (2 parts) showing the atria, ventricles and valves
- Liver with gallbladder
- Stomach
- Single piece including small intestine, large intestine and pancreas
- Removable cover that exposes interior of caecum

Mounted on base.

**Size:** 20 x 15 x 50 cm

**Weight:** approx. 2.3 kg

**Ref.no.** B122



B122





### **Budget sexless torso, 12 parts**

This sexless life-size torso is composed of 12 parts. Accurate in all of its detailing, this model is a useful tool to show the human anatomy in any classroom. Structures are numbered and identified on the accompanying key-card. The head is removable and divided into two parts, exposing the inner structure of the brain. The neck is dissected through the ventral surface to show muscular, glandular, vascular and neural structures. The thorax and abdomen are completely open, affording an unrestricted view of the internal organs and structures.

#### **Removable components include the following:**

- Head, divided into 2 parts, showing a section of the brain and the upper respiratory tract
- Half of the brain, divided along the longitudinal fissure to expose internal structures and vessels
- Right and left lungs, showing the bronchial tree and vasculature
- Heart
- Liver with gallbladder
- Stomach
- Pancreas, duodenum and spleen with vessels and ducts
- Small and large intestine with removable window in caecal region

Mounted on base.

**Size: 90 x 33 x 23 cm**

**Weight: approx. 9.3 kg**

**Ref.no. B109**



### Torso unisex, 16 parts

This life size unisex torso, composed of 16 parts, is appropriate for any human anatomy course. All of the major organ systems are represented with great attention to accuracy and detail. Structures are numbered and identified on the accompanying key and many additional features are included in the CD-ROM Guide. The head is open, exposing one half of the brain. The neck is dissected ventrally to expose muscular, neural, vascular and glandular structures. The thorax and abdomen are completely open, affording an unrestricted view of the internal organs and structures.

#### Removable structures include the following:

- Half of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels
- Eye with optic nerve and extraocular muscles
- Descending thoracic aorta and esophagus
- Right and left lungs (two parts each), showing the bronchial tree and vasculature
- Two-part heart showing the atria, ventricles, cardiac valves and section through the ventricular heart wall
- Half of one kidney, sectioned along the frontal plane to show the internal structure and vessels
- Kidney, urethra and urinary bladder with prostate (removable in 2 parts)
- Stomach, showing muscular and vascular structures
- Pancreas, duodenum and spleen with vessels and ducts
- Liver
- Small and large intestine with removable cover over portion of caecum

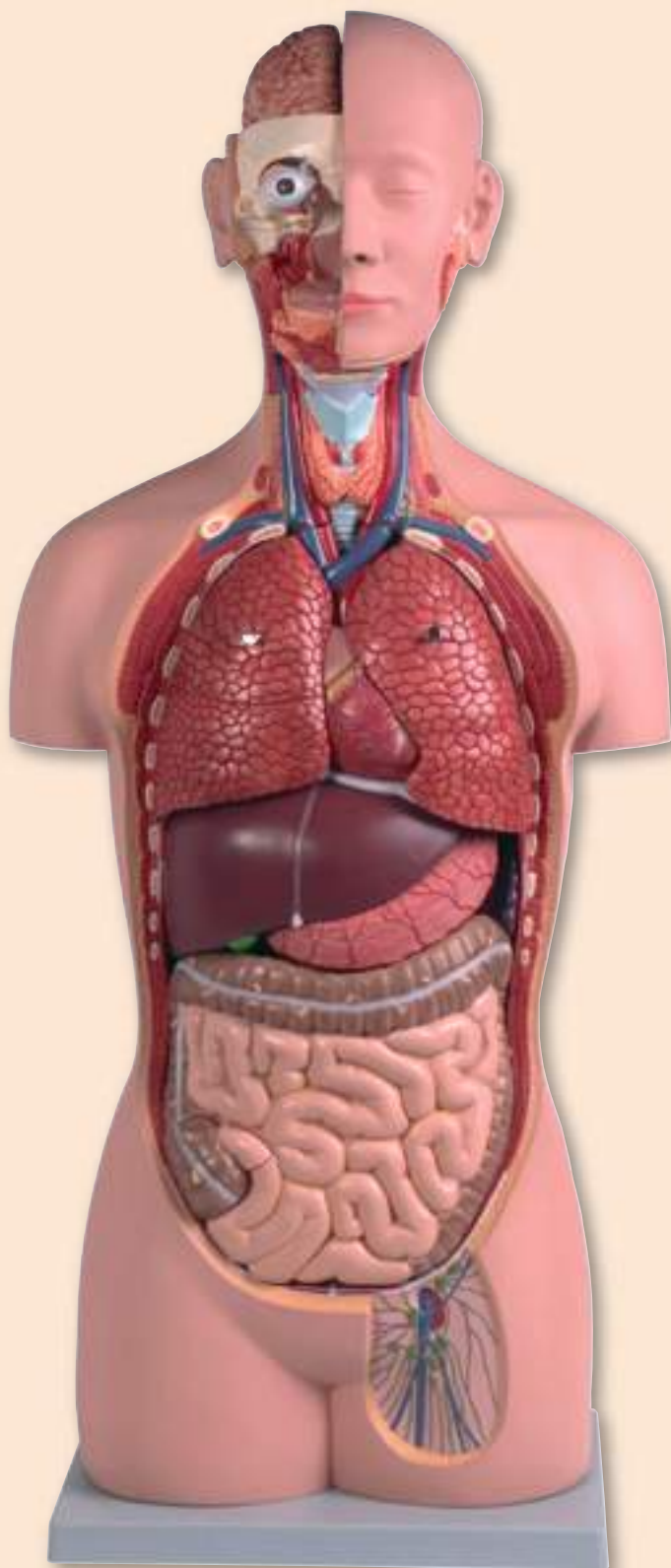
Mounted on base.

**Size: 90 x 33 x 23 cm**

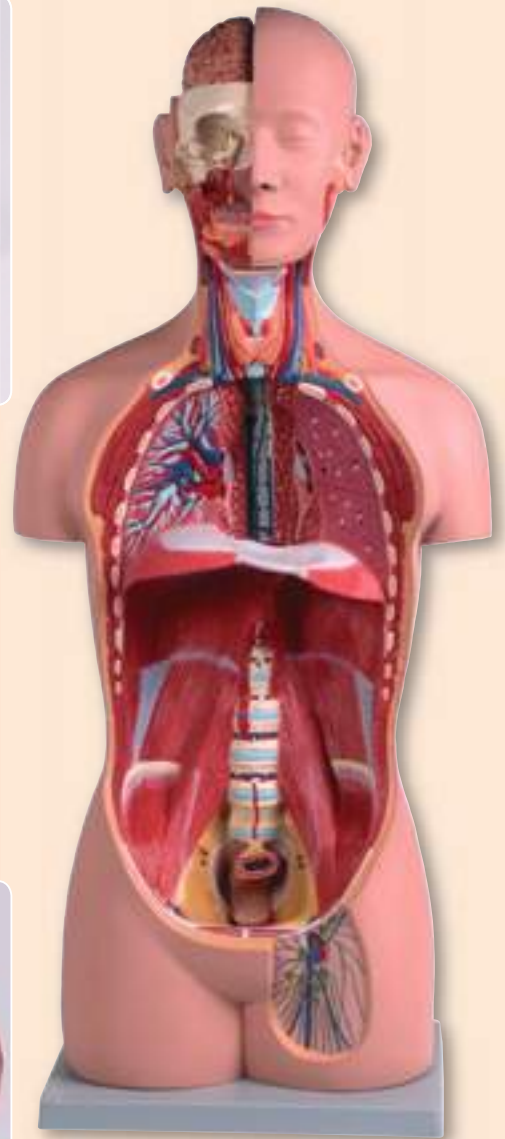
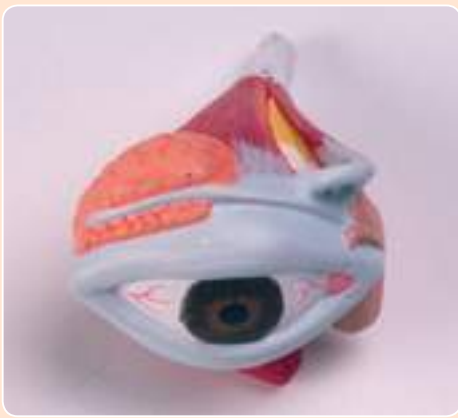
**Weight: approx. 9 kg**

**Supplied with CD human torso guide (see page 53)**

**Ref.no. B111**







### Torso unisex, open back, 17 parts

This unisex life size torso is composed of 17 parts. Accurate in all of its detailing, this model is appropriate for use in any human anatomy classroom. Anatomical structures of the major body systems are numbered and identified on the accompanying key, and many additional features are pointed out in the pictorial CD-ROM Guide. The head is sectioned to expose one half of the brain. The neck is dissected through the ventral surface to show muscular, glandular, vascular and neural structures. The thorax and abdomen are completely open to afford an unrestricted view of internal organs and associated structures. The back is dissected, revealing the muscular layers, vertebral column, spinal cord and nerve branches. One thoracic vertebra is removable for detailed examination of its structure and association with the spinal cord. The removable parts are the same as in model **B111**, additional the 12th thoracic vertebra with nerves can be removed.

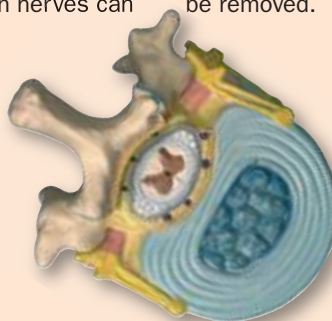
Mounted on base.

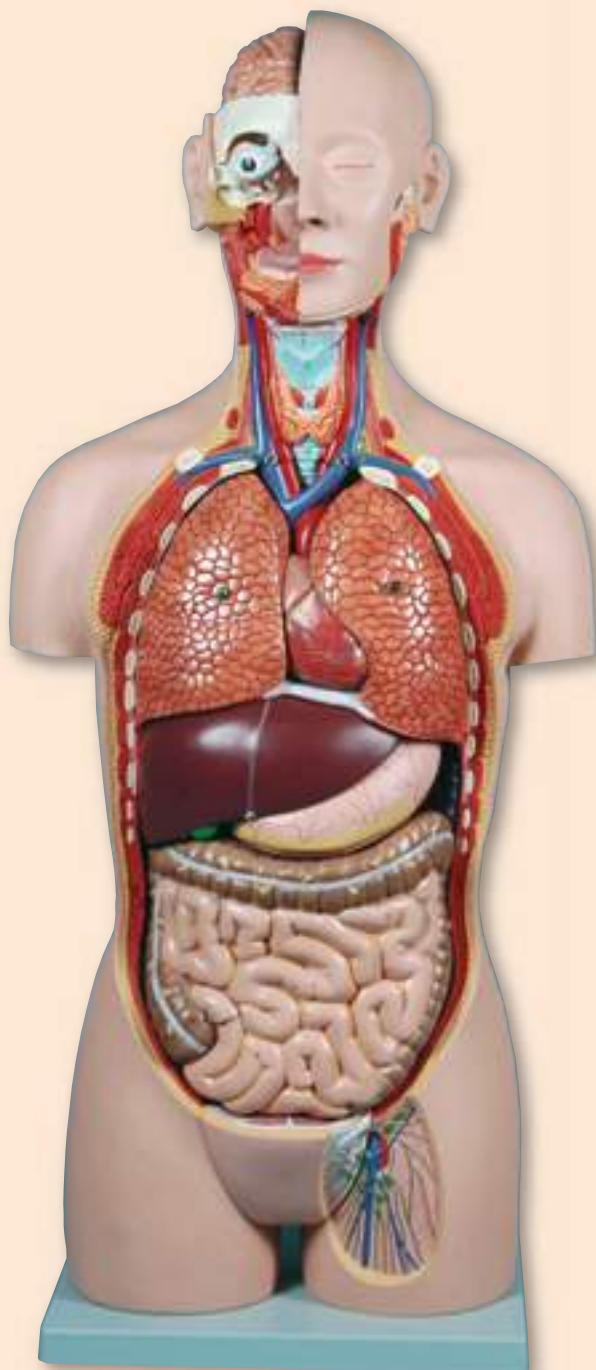
**Size:** 90 x 33 x 23 cm

**Weight:** approx. 9 kg

**Supplied with CD human torso guide (see page 53)**

**Ref.no. B119**





### **Torso, unisex, 18 parts**

This life size torso is composed of 18 parts, providing a realistic and detailed reproduction of the internal organs. The head is sectioned to expose one half of the brain. The neck is dissected through the ventral surface to show muscular, glandular, vascular and neural structures. The thorax and abdomen are completely open to afford an unrestricted view of internal organs and associated structures. Anatomical structures of the major body systems are numbered and identified on the accompanying key, and many additional features are pointed out in the pictorial CD-ROM Guide.

#### **Removable components include the following:**

- Half of the brain, divided along the longitudinal fissure to expose internal structures and blood vessels
- Eye with optic nerve and extraocular muscles
- Trachea
- Descending thoracic aorta and esophagus
- Right and left lungs (two parts each), showing the bronchial tree and vasculature
- Liver with gallbladder
- Half of one kidney, sectioned along the frontal plane to show the internal structure and vessels
- Two-part heart showing the atria, ventricles, cardiac valves and section through the ventricular heart wall
- Stomach
- Pancreas, duodenum and spleen with vessels and ducts
- Small and large intestine with removable window in caecal region
- Removable cover in the groin area

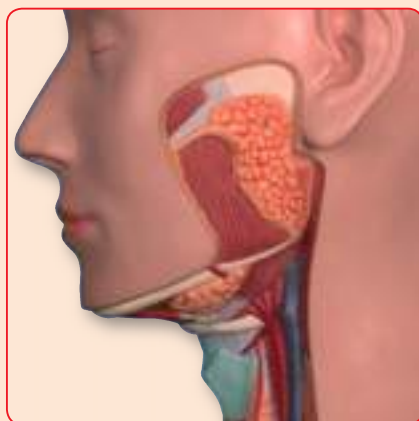
Mounted on base.

**Size: 90 x 33 x 23 cm**

**Weight: approx. 9.3 kg**

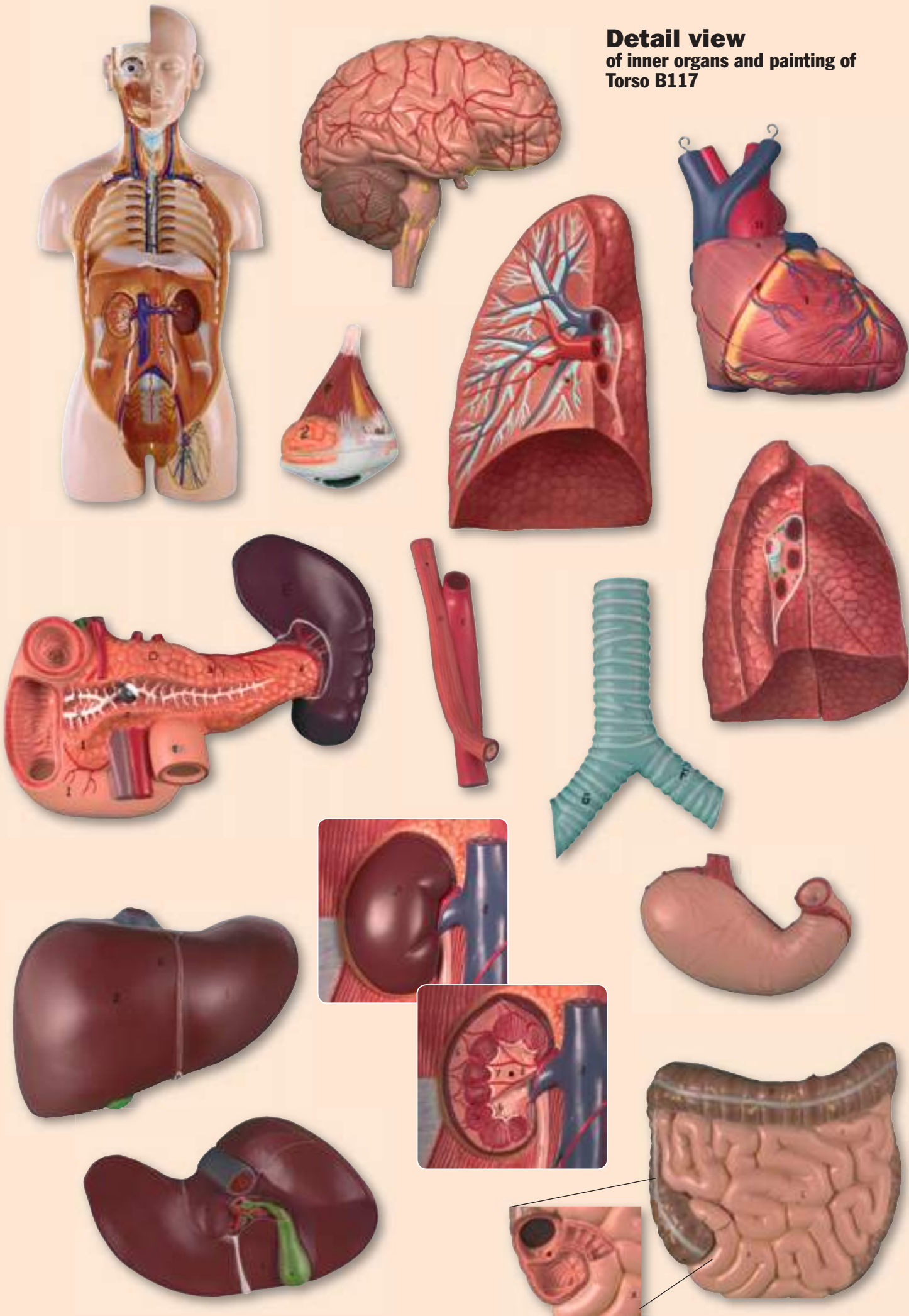
**Supplied with CD human torso guide (see page 53)**

**Ref.no. B117**

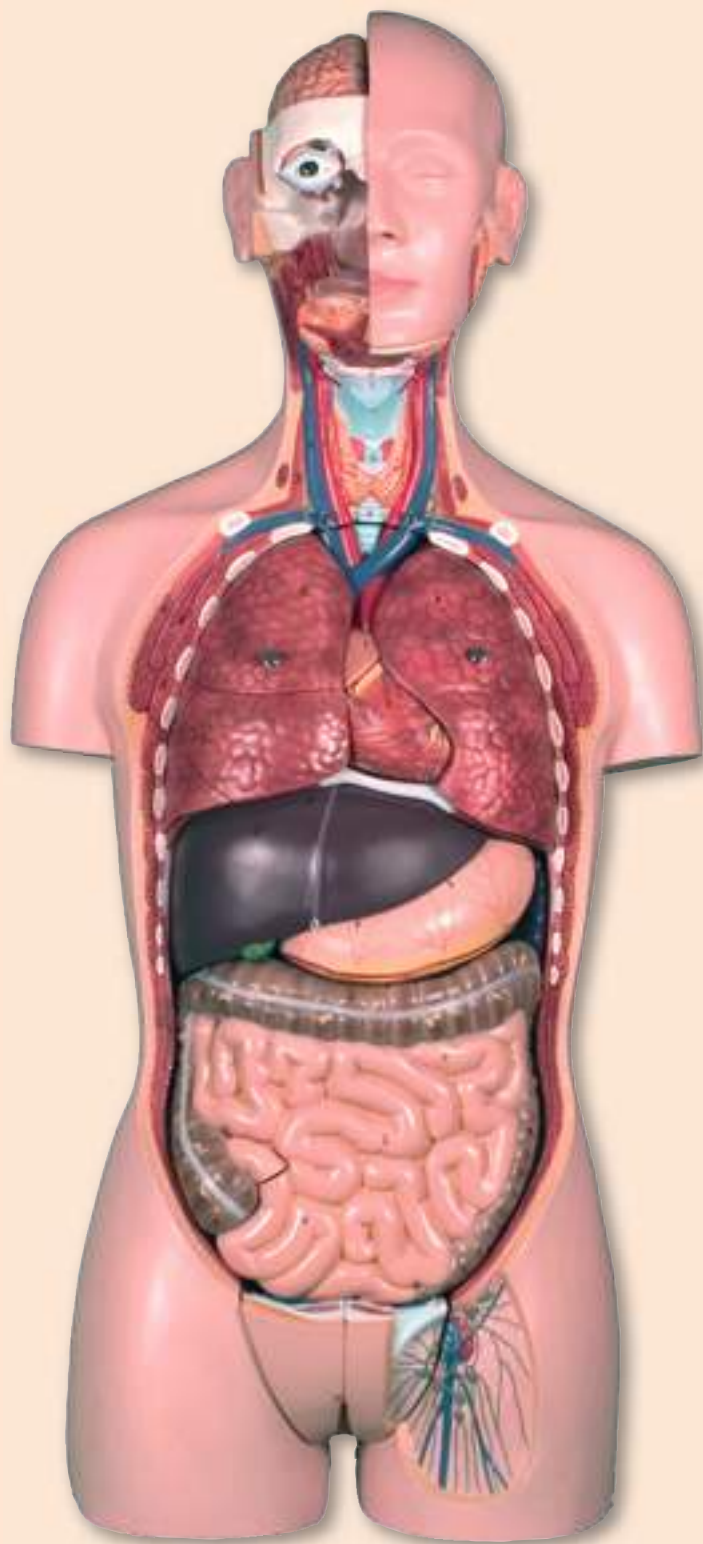




**Detail view**  
of inner organs and painting of  
Torso B117







### Torso, dual sex, 25 parts

This life size, closed back torso is composed of 25 parts that feature the most realistic reproductions of anatomical structures in their most intimate detail. The head is sectioned to expose half the brain. In addition, the neck is dissected to expose muscular, neural, vascular and glandular structures. The thorax and abdomen are completely open, providing an unrestricted view of all internal features. Significant structures are numbered and referenced on the accompanying key. Many additional features are included in the CD-ROM Guide. Separate male and female urogenital systems fit interchangeably into the main portion of the torso.

#### Removable structures include the following:

- Eye with optic nerve and extraocular muscles
- Half of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels
- Trachea
- Descending thoracic aorta and esophagus
- Right and left lungs (two parts each), showing the bronchial tree and vasculature
- Liver with gallbladder
- Half of one kidney sectioned along the frontal plane, showing the internal features and vessels
- Two-part heart with excellent depiction of atria, ventricles, valves and muscular heart wall
- Stomach
- Pancreas, duodenum and spleen with vessels and ducts
- Small and large intestines with removable cover over portion of caecum
- Male and female urogenital systems (4 parts each) sectioned medially with excellent views of internal structures

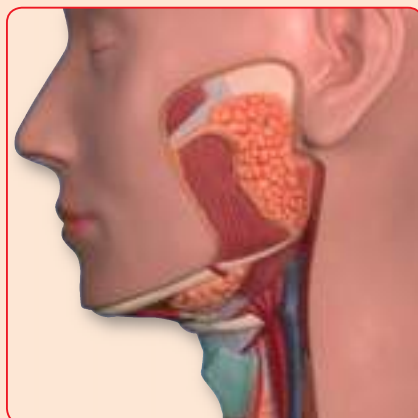
Mounted on base.

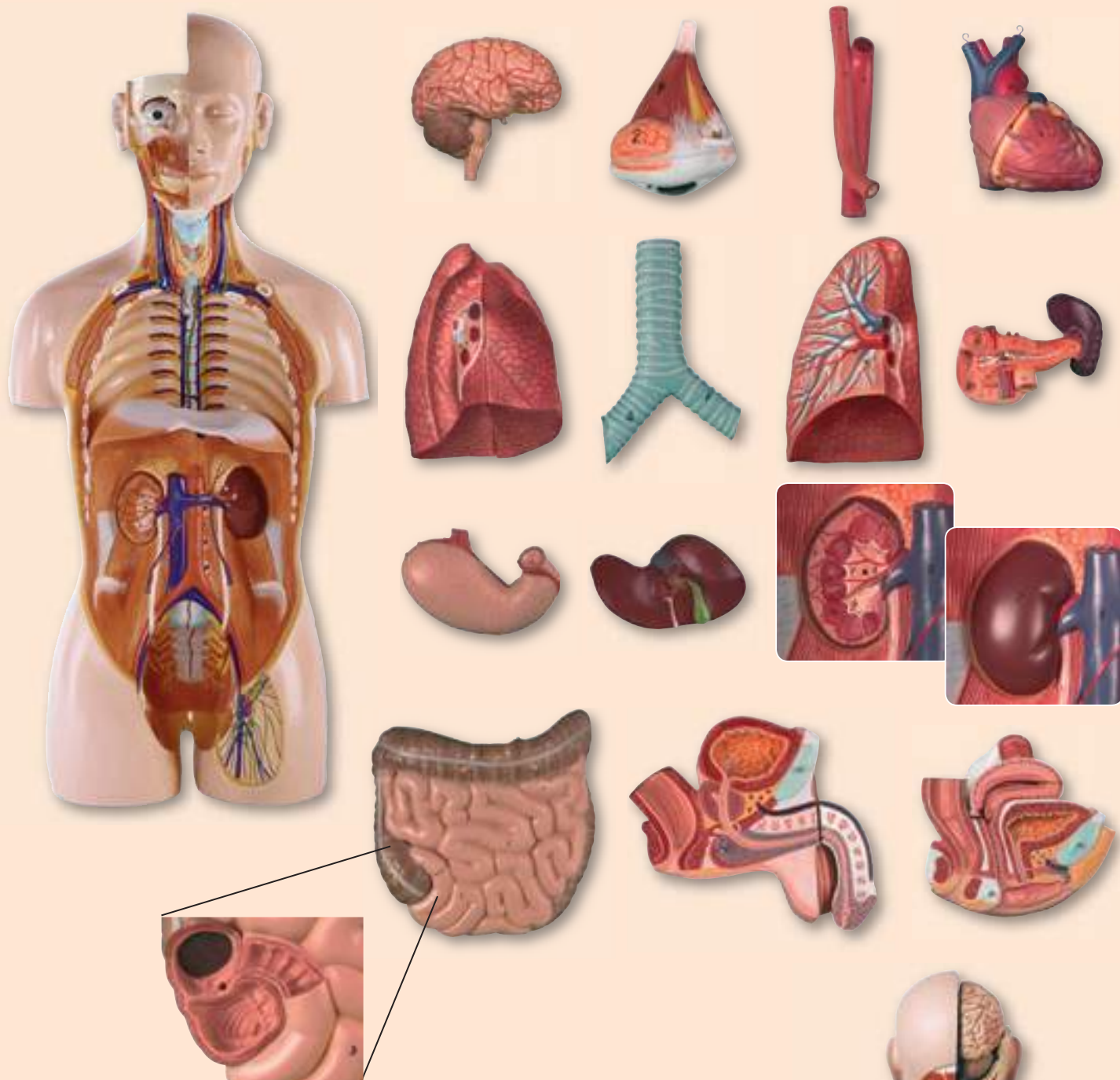
**Size: 90 x 33 x 23 cm**

**Weight: approx. 9.3 kg**

**Supplied with CD human torso guide (see page 53)**

**Ref.no. B130**





### **Torso dual sex, open back, 27 parts**

A complete life size torso with open back, composed of 27 parts that provide an exceptionally realistic reproduction of anatomical structures in their finest detail. All of the body systems are represented with full accessibility. Significant structures are numbered and referenced on the accompanying key and many additional features are included in the CD-ROM Guide. The open back exposes muscular layers as well as the vertebral column and associated nerve branches. A thoracic vertebra, including a section of spinal cord, is removable for close examination of its anatomical details. The head is open and the brain is fully exposed on one side. The neck is dissected to expose muscular, neural, vascular and glandular structures. The dissectible male and female urogenital systems are interchangeable. Removable structures are the same as in model **B130** plus the removable thoracic vertebra and the two-part stomach. Mounted on base

**Size:** 90 x 33 x 23 cm

**Weight:** approx. 9.3 kg

**Supplied with CD human torso guide (see page 53)**

**Ref.no. B135**





**New**

## High End Muscular Torso, 28 parts

This Torso model is the most advanced version you can get. Finest material, soft outer skin and handmade base make this model a masterpiece. Life size, it is composed of 28 parts and all body systems are represented and easily accessible. The left side exposes all significant superficial and deep muscles with vessels and bones. The open back shows muscular layers as well as the vertebral column and associated nerve branches. A thoracic vertebra, including a section of spinal cord, is removable for close examination of its anatomical details.

The head is open and the brain is fully exposed on one side. The neck is dissected to expose muscular, neural, vascular and glandular structures. Significant features are numbered and referenced on the accompanying multilingual key card. The dissectible male and female urogenital systems are interchangeable.

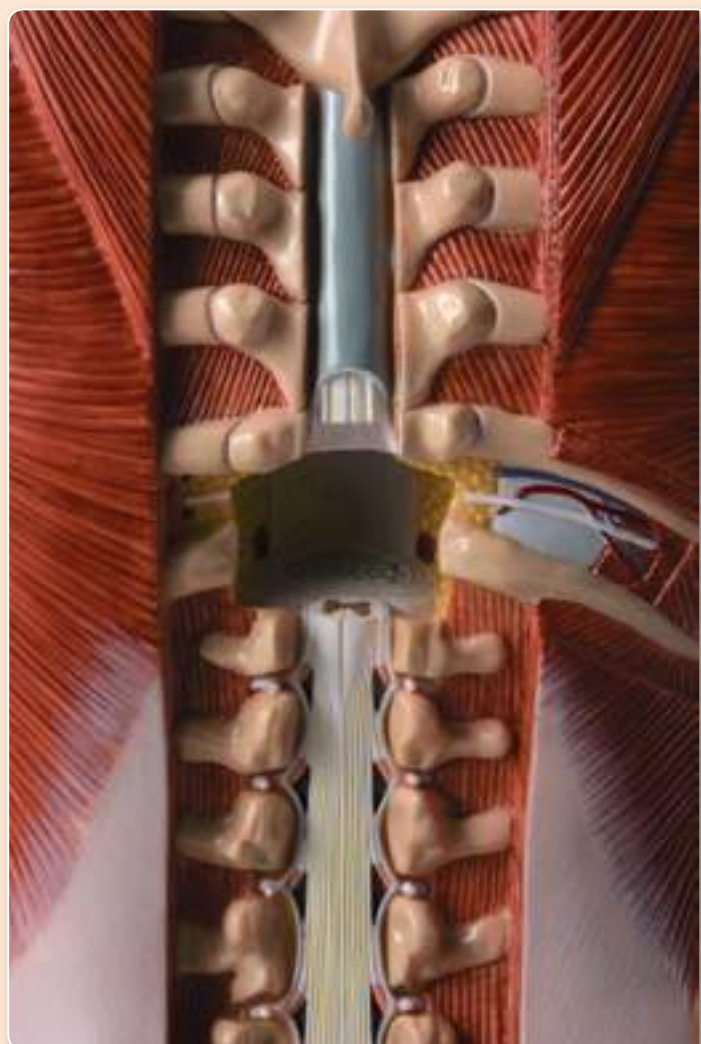
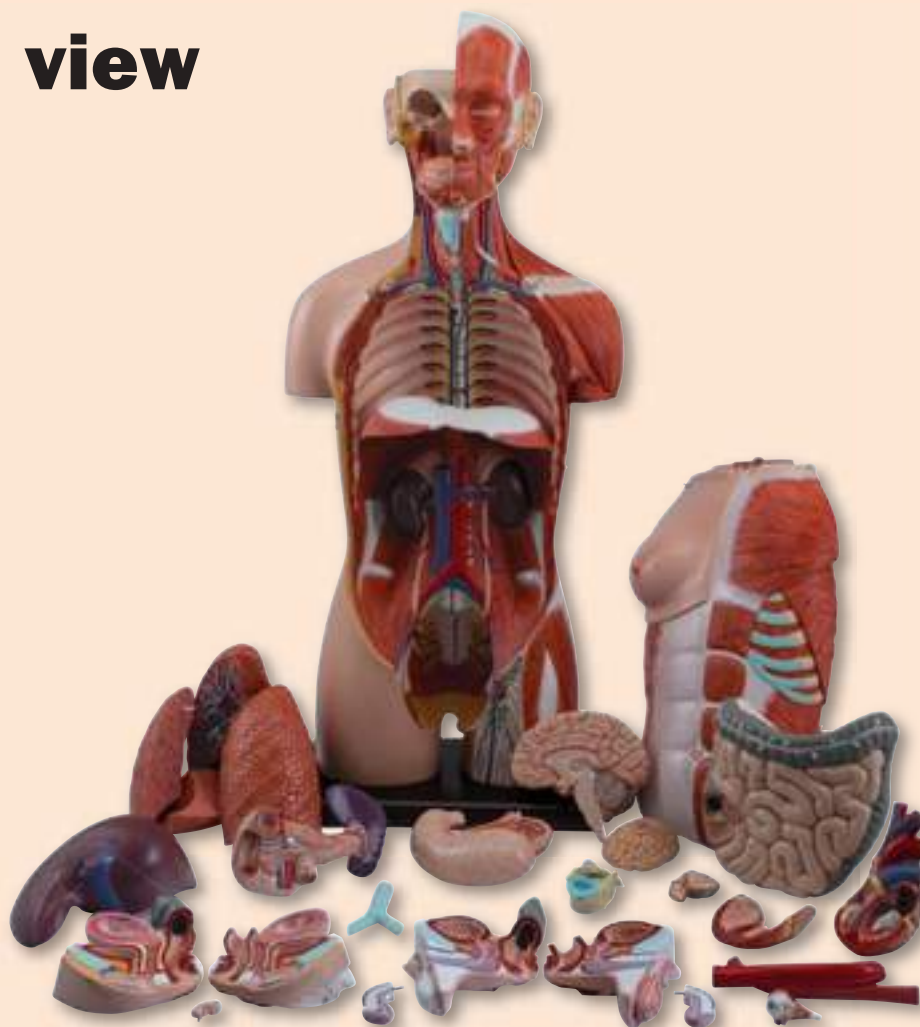
### Removable structures include the following:

- eye with optic nerve and extraocular muscles
- half of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels
- trachea
- descending thoracic aorta and esophagus
- right and left lungs (2 parts each), showing the bronchial tree and vasculature
- chest and abdominal cover, showing superficial musculature
- mammary gland
- liver with gallbladder
- half of one kidney sectioned along the frontal plane, showing the internal structure and vessels
- 2-part heart with clear representation of atria, ventricles, valves and section of heart wall
- stomach dissected in 2 parts
- pancreas, duodenum and spleen with vessels and ducts
- small and large intestines with removable cover over portion of caecum
- male urogenital systems (4 parts)
- female urogenital system (3 parts) including embryo
- thoracic vertebra (T12) with spinal cord

**Ref.no. B150**



# Detail view



## Muscular Torso Dual-Sex, Open Back, 28 Parts

This life size torso with open back is composed of 28 parts and provides an exceptionally realistic reproduction of anatomical structures in their finest detail. All of the body systems are represented with full accessibility. The left side exposes all significant superficial and deeper muscles with vessels and bones. The open back shows muscular layers as well as the vertebral column and associated nerve branches. A thoracic vertebra, including a section of spinal cord, is removable for close examination of its anatomical details. The head is open and the brain is fully exposed on one side. The neck is dissected to expose muscular, neural, vascular and glandular structures. Significant features are numbered and referenced on the accompanying key card. The dissectible male and female urogenital systems are interchangeable.

### Removable structures include the following:

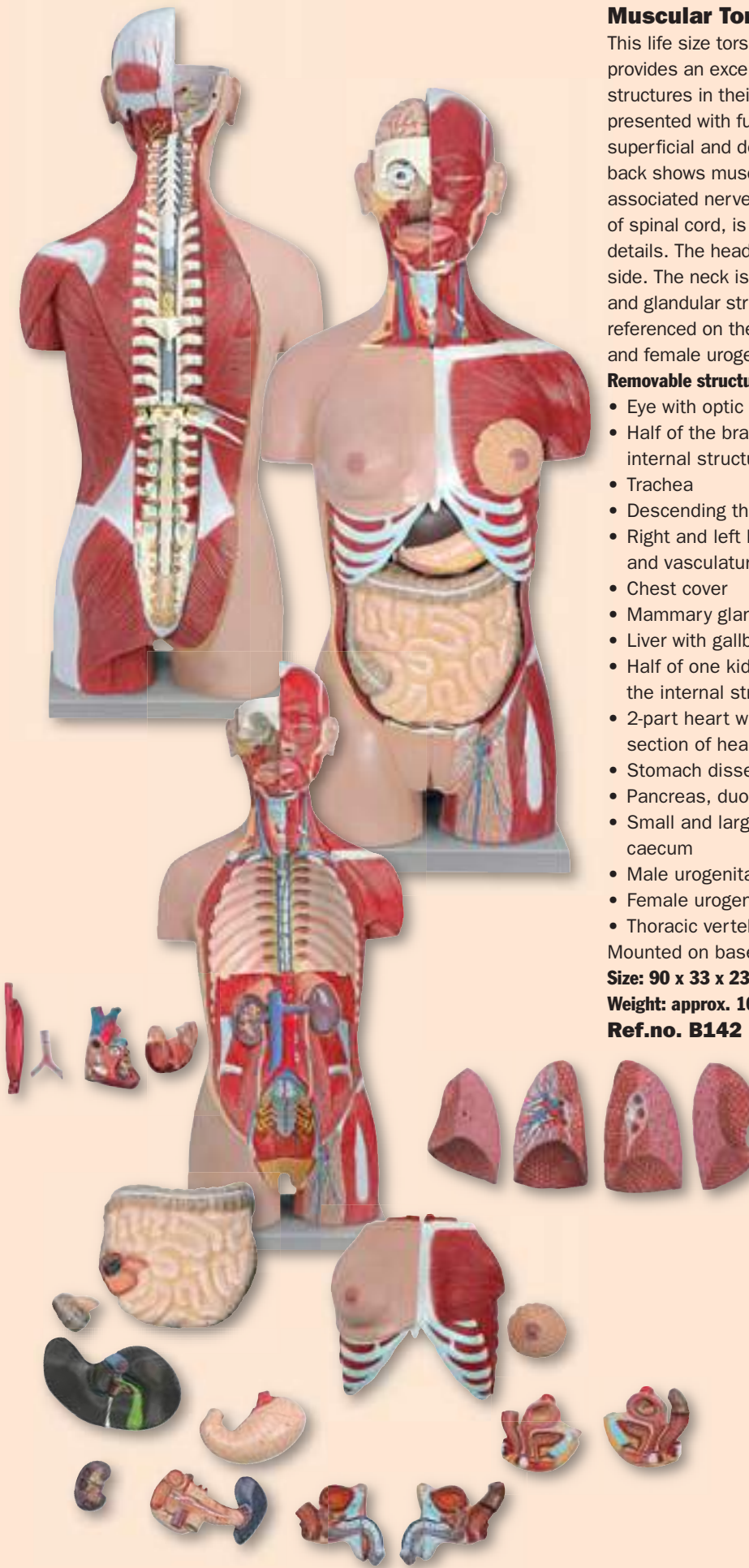
- Eye with optic nerve and extraocular muscles
- Half of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels
- Trachea
- Descending thoracic aorta and esophagus
- Right and left lungs (2 parts each), showing the bronchial tree and vasculature
- Chest cover
- Mammary gland
- Liver with gallbladder
- Half of one kidney sectioned along the frontal plane, showing the internal structure and vessels
- 2-part heart with clear depiction of atria, ventricles, valves and section of heart wall
- Stomach dissected in 2 parts
- Pancreas, duodenum and spleen with vessels and ducts
- Small and large intestines with removable cover over portion of caecum
- Male urogenital systems (4 parts)
- Female urogenital system (3 parts) including embryo
- Thoracic vertebra (T12) with spinal cord

Mounted on base.

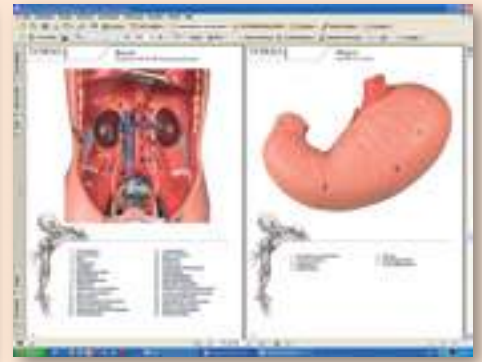
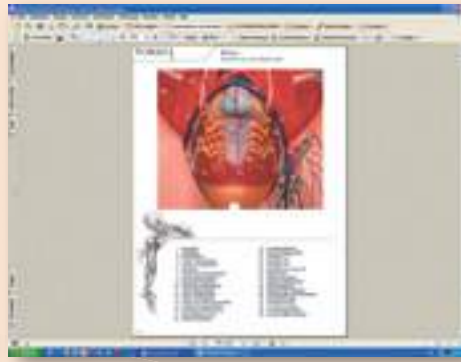
**Size: 90 x 33 x 23 cm**

**Weight: approx. 10 kg**

**Ref.no. B142**







### CD-ROM Torso Guide

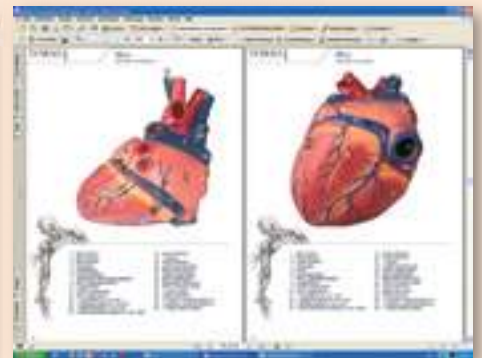
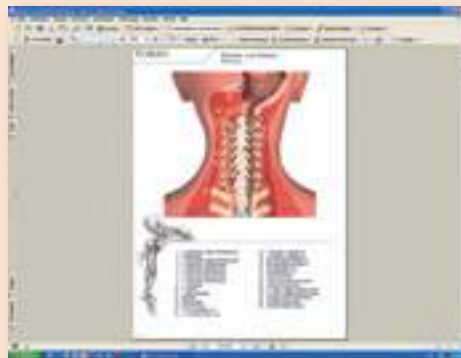
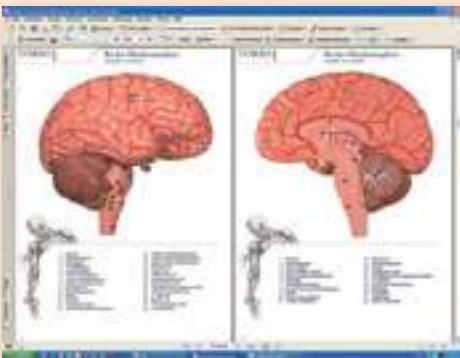
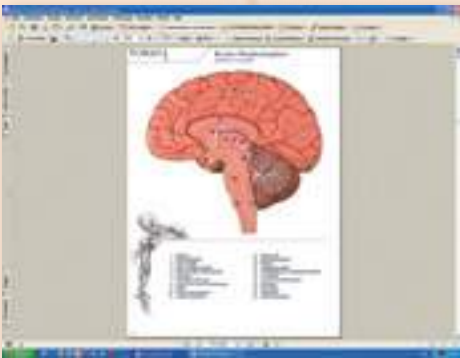
This CD-ROM Guide greatly extends the educational value of the anatomical torsos by identifying hundreds of structures that are not included on the printed key. Designed for ease of use, the guide is composed in PDF format and organized systematically for efficient navigation. **High-resolution digital images** of torso components show the finest anatomical details of all body systems from various angles, enabling the user to make direct comparisons with standard anatomical atlases. Structures are clearly numbered and referenced with standard anatomical nomenclature.

You may view the images on your computer system or print them out. Of course you may also create overhead projector foils since most Laser- or Inkjet printers can print onto foil. The Torso Guide is included on the CD in the languages **English, German, French, Spanish, and Italian**. You may also use it as **translation help**.

The Torso Guide consists of 63 pages which show detailed pictures of many structures and a lot of helpful information.

The Torso guide is supplied with all Torsos that mention it in the descriptive text, but you may also order it separately.

**Ref.no. B100**







M290

**New**  
with soft muscles

### 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





Prototype image, please  
check our website for an up-  
to-date product picture.

**B90**

### **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. The perfect model if a life size model is too big but you want to see as many details as possible.

**Size: appr. 62 cm**

**Ref.no. B90**



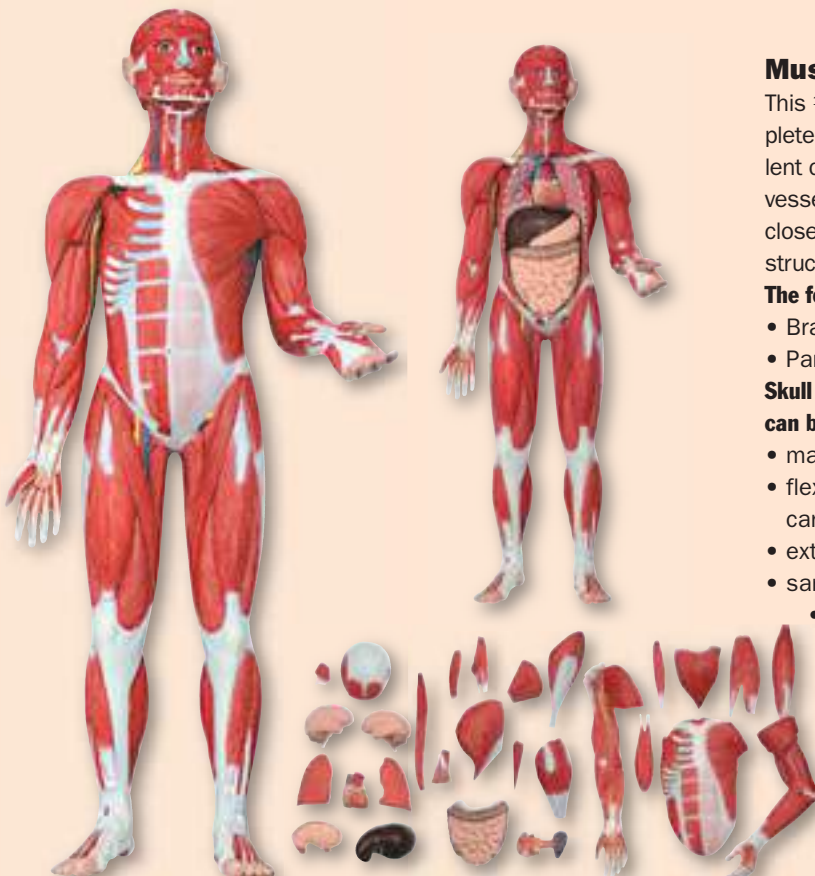
### **Muscular body, 1/4 life size**

This desktop size model is a useful tool to study human superficial musculature.

Significant structures are numbered and referenced on the accompanying Key-card. Mounted on base.

**Size: 25 x 18 x 40 cm, Weight: approx. 0.8 kg**

**Ref.no. B58**



### **Muscular Figure, 30 Parts, 85 cm**

This 1/2 life size high quality model represents a replica of the complete human muscular and organs anatomy. It illustrates with excellent detail the superficial and deeper muscles, tendons, ligaments, vessels and body structures. The internal organs are removable for closer examination to study the relationships among all the body structures.

**The following organs can be removed:**

- Brain, 2 part • Heart, 2 part • 2 Lungs • Stomach • Liver
- Pancreas, duodenum, spleen • Intestines

**Skull cap, Arms and belly cover can be removed; the following muscles can be removed:**

- masseter muscle • deltoid muscle • biceps brachii muscle
- flexor carpi ulnaris muscle, palmaris longus muscle, flexor carpi radialis muscle
- extensor carpi ulnaris muscle, extensor digitorum muscle
- sartorius muscle • rectus femoris muscle
- adductor longus muscle • gluteus maximus muscle
- gluteus minimus muscle
- biceps femoris muscle, semitendinosus muscle
- gastrocnemius muscle • soleus muscle
- tibialis anterior muscle

Supplied with stand.

**Size: 33 x 30 x 87 cm, weight: approx. 5.3 kg**

**Ref.no. B160**



### Muscles of the Human Arm, 7 Parts

This 7-part life size model shows, in great detail, the anatomical structure of the arm, complete with superficial and deeper muscles, vascular structures, nerves and ligaments. The hand and the shoulder are also well represented.

The following parts are removable:

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

Mounted on stand.

**Size: 74 x 20 x 12 cm**

**Weight: approx. 1.9 kg**

**Ref.no. M111**



**M110**

### Muscles of the arm

This model illustrates the muscles of the arm in the relaxed and contracted states. Muscles and tendons are showed in great detail. Mounted on base.

**Size: 40 x 26 x 6 cm**

**Weight: 1 kg**

**Ref.no. M110**

### Muscles of the Human Leg, 13 Parts

This 13-part model shows, in great detail, the anatomical structure of the leg, complete with superficial and deeper muscles, vascular structures, nerves and ligaments.

The following parts are removable:

- Sartorius
- Long head of biceps
- Gluteus maximus
- Soleus
- Gastrocnemius
- Gluteus medius
- Gracilis
- Semitendinosus and Semimembranosus
- Rectus femoris
- Extensor digitorum longus
- Sole of foot
- Tensor fasciae latae

Mounted on stand.

**Size: 110 x 19 x 14.5 cm**

**Weight: approx. 5.1 kg**

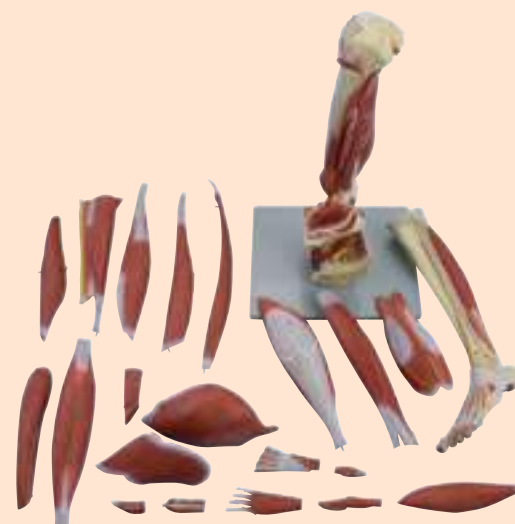
**Ref.no. M120**

### Muscular Leg, 23 parts

This life-size model, detachable into 23 parts, is an important support for understanding the complete anatomy of the human leg. The superficial and deeper musculature, represented with great accuracy and detail, can be removed for closer examination. The model, also showing ligaments, nerves, artery and veins, comes with an accompanying multilingual key card. Mounted on base.

**Weight: 7 kg**

**Ref.no. M121**





### Cardiac muscle structure

This model shows the microanatomy of the cardiac muscle fibre. All the most important structures are represented in high detail including cell membrane, sarcomer myofibrils, sacroplasmic reticulum and the fine adhesion structures between cell to cell with intercalated disks. On base.

**Size: 42 x 30 x 20 cm**

**Weight: 2 kg**

**Ref.no. B162**



**New**

**B162**

**New**



**B163**

### Smooth muscle structure

The model shows smooth muscle cells with their typical fusiform shape, all the microanatomy structures are well represented, in particular the lateral relationship between two smooth muscles called gap junction. The peculiarity of this model is the unique description of the cytoskeleton organization.

Smooth muscle cells show actin and myosin filaments contractile units not in register like striated muscle cells.

**Size: 33 x 23 x 15 cm**

**Weight: appr. 1.8 kg**

**Ref.No. B163**

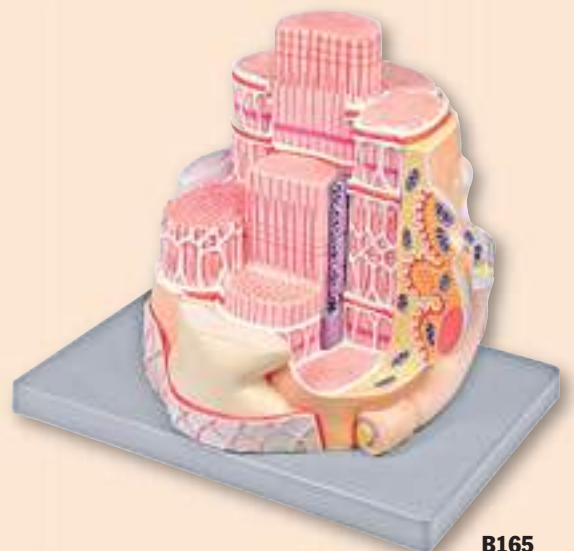
### Skeletal Muscle Fibre

This model, enlarged approximately 40000X, shows the structure of skeletal muscle fibres, including the anatomical features of sarcomeres with sarcoplasmic reticulum, myosin and actin myofibrils and the neuromuscular plate. Mounted on base.

**Size: 33 x 22.5 x 30 cm**

**Weight: approx. 2 kg**

**Ref.no. B165**



**B165**

### Male perineum

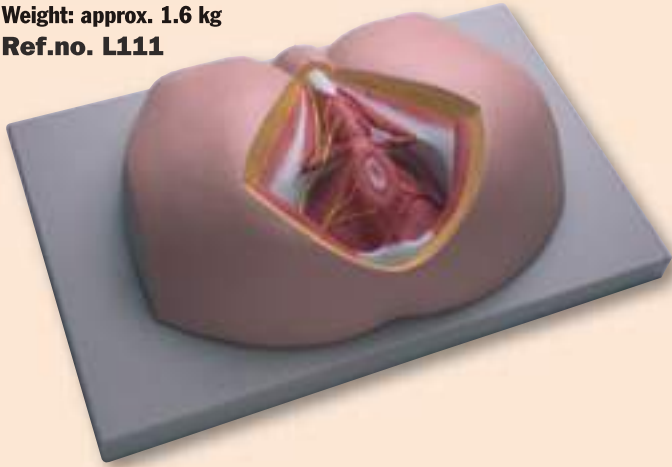
This life size model shows the male perineal area, including the anus and external genitalia. The pelvic diaphragm, urogenital perineum and anal perineum are well represented, including distribution of blood vessels and nerve endings.

Mounted on board

**Size: 26 x 40 x 10 cm**

**Weight: approx. 1.6 kg**

**Ref.no. L111**



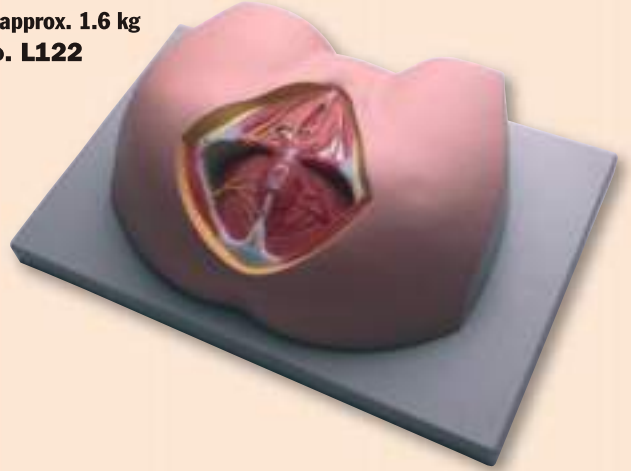
### Female perineum

This life size model shows the female perineal area, including the anus and the external genitalia. The pelvic diaphragm, urogenital perineum with opening of the vagina, and the anal perineum are well represented. Distribution of blood vessels and nerve endings is included. Mounted on board

**Size: 26 x 40 x 11 cm**

**Weight: approx. 1.6 kg**

**Ref.no. L122**



**C105**



**C114**



### Half Head, life size

Life size model shows the right half of the human head and neck, sectioned along the sagittal plane. A superficial dissection exposes the facial muscles, the superficial blood vessels and nerve branches of the face and scalp, and the parotid and sub-mandibular glands. A median dissection exposes the brain with its internal structure; the pharynx and upper respiratory tract; and a section of the cervical vertebrae.

Mounted on base.

**Size: 20 x 15 x 29 cm**

**Weight: approx. 1.2 kg**

**Ref.no. C114**



**C129**

### Anatomy of the Neck

This life size model is a ventral view of the human neck, showing excellent details of the main muscles, vascular structures, nerves and glands. Mounted on board.

**Size: 23 x 14 x 32 cm**

**Weight: approx. 1 kg**

**Ref.no. C129**

### Head and neck musculature

This model shows the muscles of the head, neck and superior thoracic region. Superficial and deep musculature are well represented, as are the pathways of the subclavian and carotid arteries.

Mounted on base

**Size: 37 x 23 x 46 cm**

**Weight: approx. 3.1 kg**

**Ref.no. C105**

### Tongue and tongue tissue

This item shows the anatomy of the life-size tongue, including the palatin and lingual tonsils, epiglottis and muscles. The model also includes a detailed 20X life-size enlargement of the tongue tissue to show its histology: taste buds, lingual and mucous glands, crypt and muscles are well represented. Mounted on base.

**Size: 33 x 22.5 x 11 cm**

**Weight.: 1240 g**

**Ref.no. C66**







**C130**

### Arteries of head

This model shows the pathway of the left external carotid artery, including collateral and terminal branches. Mounted on base.

**Size:** 20 x 15 x 23 cm

**Weight:** approx. 0.6 kg

**Ref.no.** C130



**C131**

### Nerves of head

This model shows the trigeminal nerve and its branches. Mounted on base.

**Size:** 20 x 15 x 20 cm

**Weight:** approx. 0.6 kg

**Ref.no.** C131



**C132**

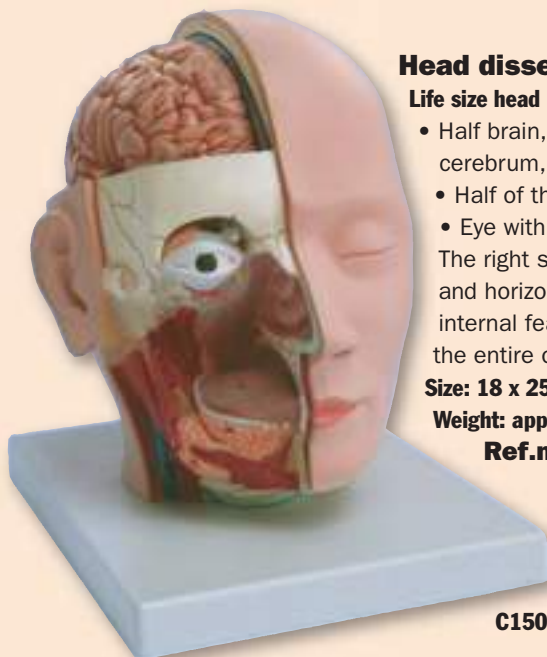
### Veins of head

This model shows the pathway of the left internal jugular vein in the cervical and head region, including the tributary venous branches. Mounted on base.

**Size:** 20 x 15 x 26 cm

**Weight:** approx. 0.6 kg

**Ref.no.** C132



**C150**

### Head dissection, 4 parts

Life size head model is composed of 4 parts, as follows:

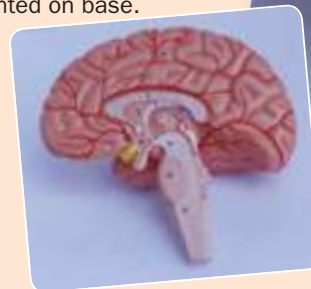
- Half brain, features the internal structure of the cerebrum, including blood vessels
- Half of the cerebellum
- Eye with optic nerve

The right side of the face is dissected in sagittal and horizontal section, showing many significant internal features of the skull and brain, as well as the entire oronasal cavity. Mounted on base.

**Size:** 18 x 25 x 23 cm

**Weight:** approx. 1 kg

**Ref.no.** C150



**C150**



**C152**

**New**

### Anatomy of Cranial Cavity, Head, Neck and Thorax

This life size model is composed of 3 parts. The head is open exposing two halves of the brain, divided along the longitudinal fissure, showing internal structures and blood vessels. The left side of the head shows the mimic muscular system. The neck is dissected ventrally to expose muscular, neural, vascular and glandular structures. The upper thorax is partially dissected, affording an unrestricted view of the internal organs and structures. Mounted on base.

**Size:** 40 x 26 x 44 cm

**Weight** approx 2.8 kg

**Ref.No.** C152





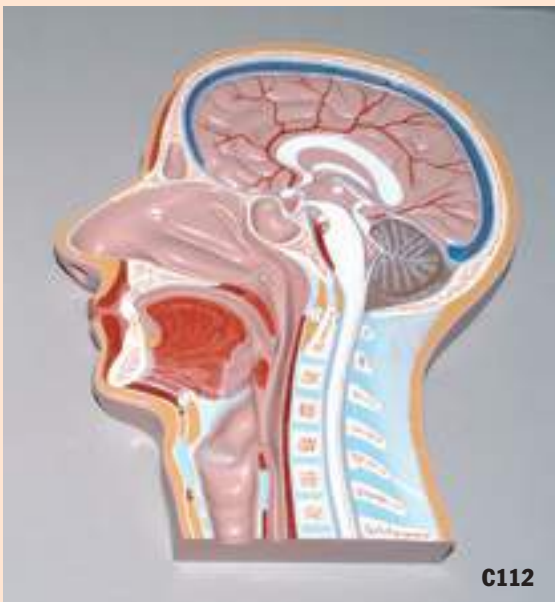
**C60**

### **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



**C112**

### **Median section of the head (relief model)**

Life size representation of the superficial and the internal structures of the head and neck. This relief model shows all relevant structures of the human head in great detail. Mounted on board.

**Size:** 33 x 23 x 5 cm

**Weight:** approx. 1.1 kg

**Ref.no.** C112



**C113**

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

Life size representation of the superficial and the internal structures of the head and neck. Comparison between frontal and median sections provides a superior understanding of the anatomical structures of the head and neck. Mounted on board.

**Size:** 53 x 38 x 6 cm

**Weight:** approx. 1.8 kg

**Ref.no.** C113



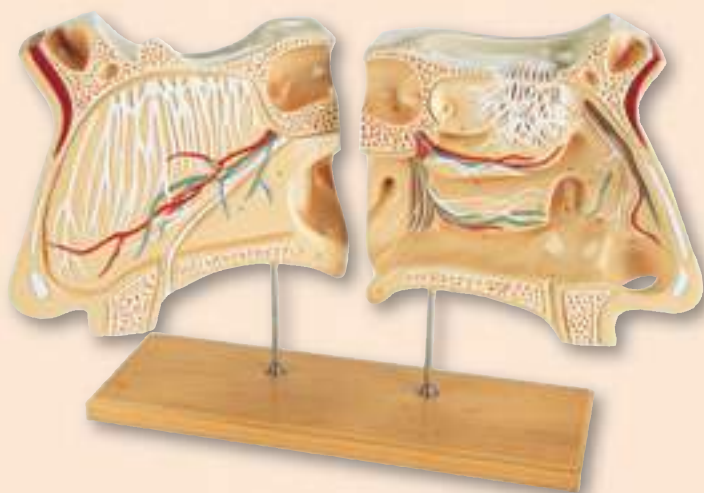
**C80**

### **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



**C70**

### **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**



**C182**

### **Nasal cavity, 3 parts**

3X life size; model shows a medial section of the nasal cavity. The nasal septum and part of the olfactory epithelium are removable to expose deep internal structures. Mounted on base.

**Size: 23.5 x 6.5 x 28.5 cm**

**Weight: approx. 1.3 kg**

**Ref.no. C182**

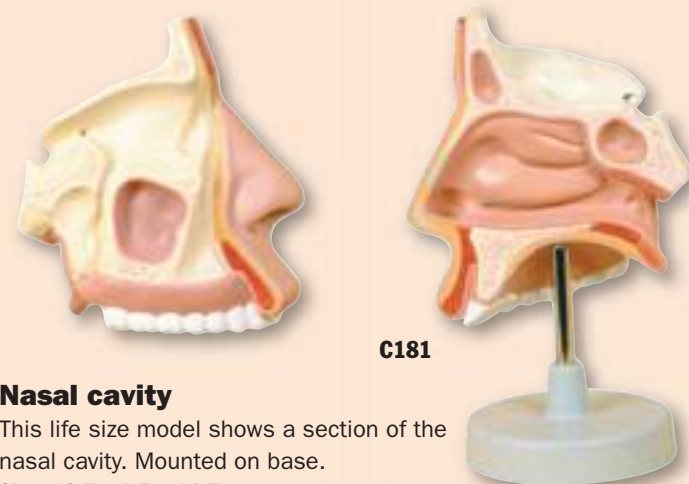


**LM05**

### **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**



**C181**

### **Nasal cavity**

This life size model shows a section of the nasal cavity. Mounted on base.

**Size: 16.5 x 4.5 x 14.5 cm**

**Weight: 0.4 kg**

**Ref.no. C181**



**C183**

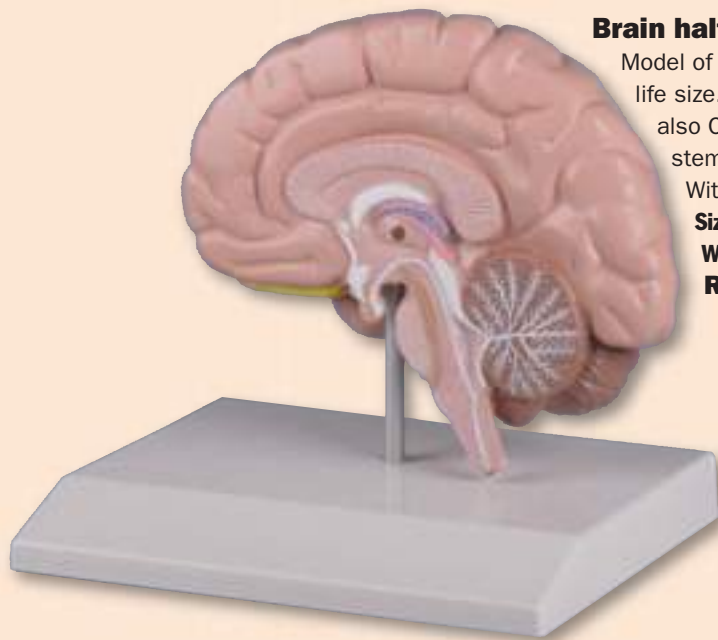
### **Clear Sinus Model**

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**

**New**



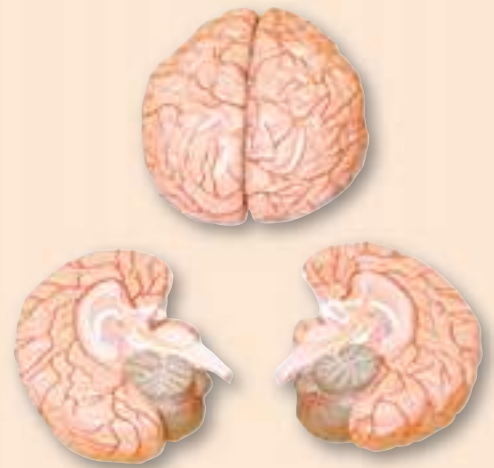
### Brain half

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**



### Brain with arteries, 2 parts

A life size brain model divided medially in 2 parts along the sagittal plane. It shows the left and right cerebrum, cerebellum and brain stem, and blood vessels.

Includes cradle base

**Size: 16 x 20 x 14 cm**

**Weight: approx. 1.4 kg**

**Ref.no. C115**



### 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**



### Brain with arteries, 9 Parts

This extremely realistic life size brain model can be divided into 9 parts showing the temporal and occipital lobes, the frontal and parietal lobes, the cerebellum, the brain stem and the basilar artery. All structures, including blood vessels, are shown in great detail. Includes cradle base

**Size: 16 x 18 x 16 cm**

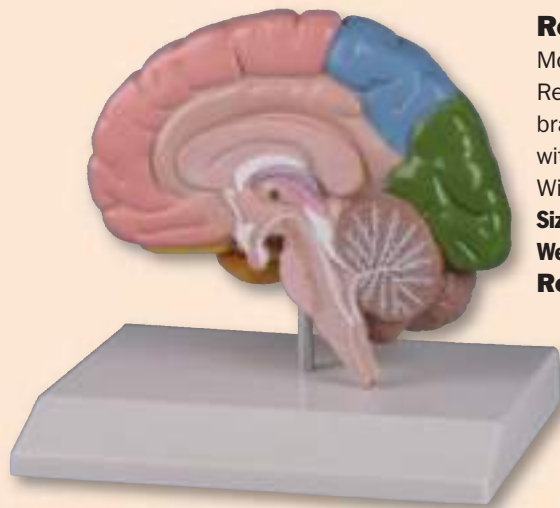
**Weight: approx. 1 kg**

**Ref.no. C120**



**C120**





### 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**



**C122**

### Regional brain, 2 parts

Life size brain with distinct color coding for the following regions: frontal lobe; parietal lobe; occipital lobe; temporal lobe; motor cortex; somatosensory cortex; limbic cortex; cerebellum; and brain stem.

Mounted on base.

**Size: 16 x 20 x 14 cm**

**Weight: approx. 1.4 kg**

**Ref.no. C122**



**C222**

### 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**



**R10122**

### 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 colours.

Delivered on removable stand.

**Size: 36 x 28 x 20 cm**

**Ref.no. C75**



**C75**

### 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.

**Ref.no. R10122**



C155

### Brain and bony skull half, 5 parts, life size

The right half skull can be disassembled in order to show half brain, eye with optic nerve and extraocular muscles, set of masticator muscles, blood vessels and nerves. An affordable model that allows the study of all anatomical structures of the human skull. Mounted on a stand.

**Size:** 20 x 15 x 29 cm

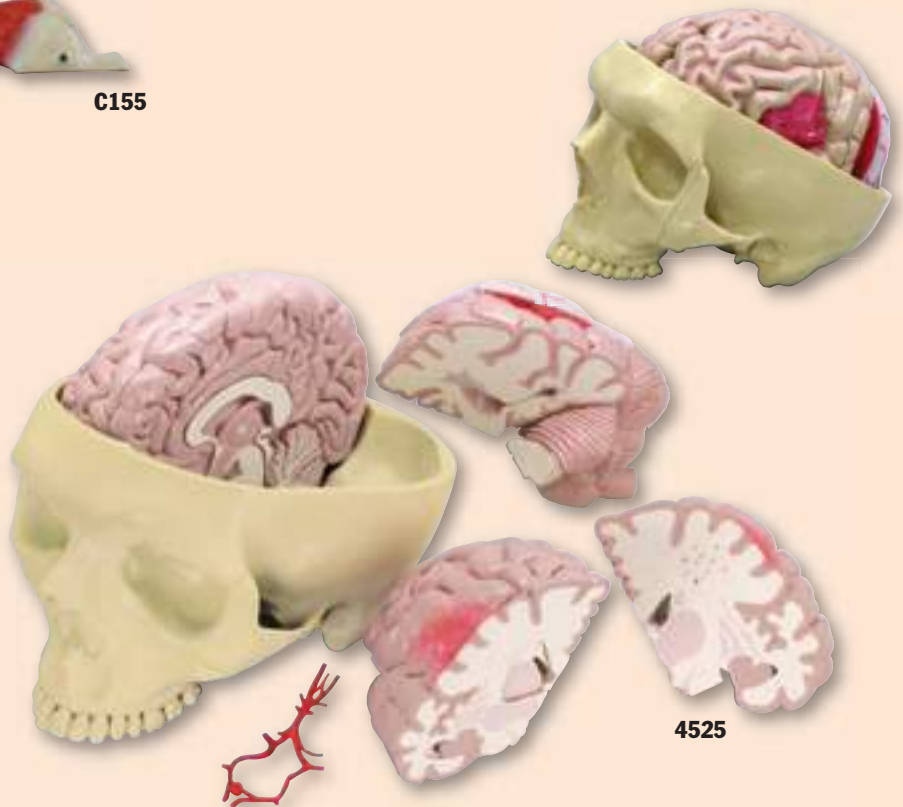
**Weight:** appr. 1 kg

**Ref.no.** C155

### 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.

**Ref.no.** 4525



4525



4610

### Neurovascular skull

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





**C76**



### 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 coloured to distinguish important features and mounted on stand.

**Size: 25 x 18 x 12 cm**

**Weight: 0.9 kg**

**Ref.no. C76**



**C85**

### 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**



**C134**



### Cerebellum, 2 parts

4X life size. Human cerebellum is bisected to show details of internal organization.

**Size: 40 x 19 x 18 cm**

**Weight: approx. 2.3 kg**

**Ref.no. C134**



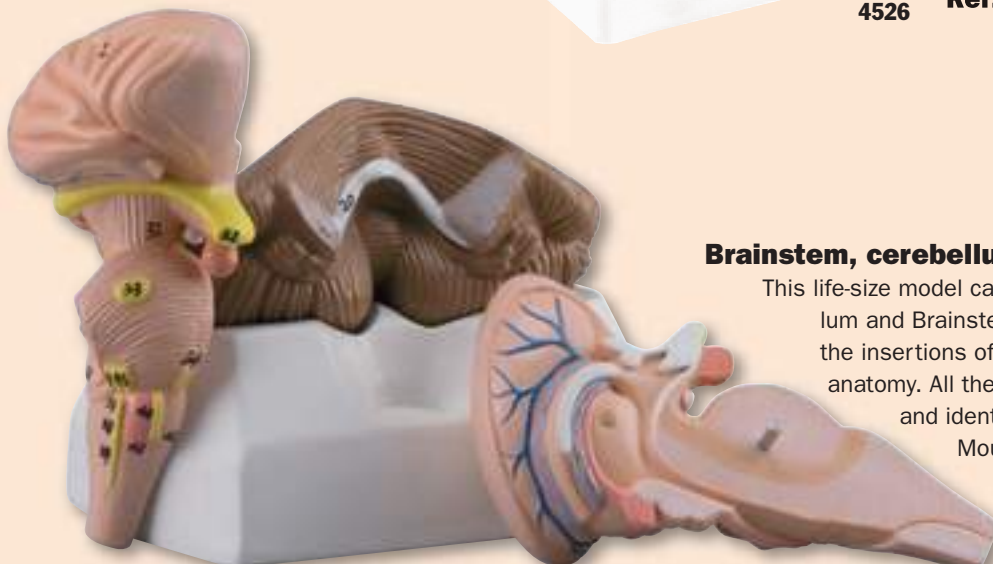
**4526**

### Brain diseases

This model represents three different pathologies related to the brain blood vessels: arteriovenous malformations called AVM, Aneurysm and Intracerebral hemorrhage. Mounted on stand.

**Size: 11 x 11 x 19 cm, Weight: 370 g**

**Ref.no. 4526**



**C160**

### Brainstem, cerebellum and fourth ventricle

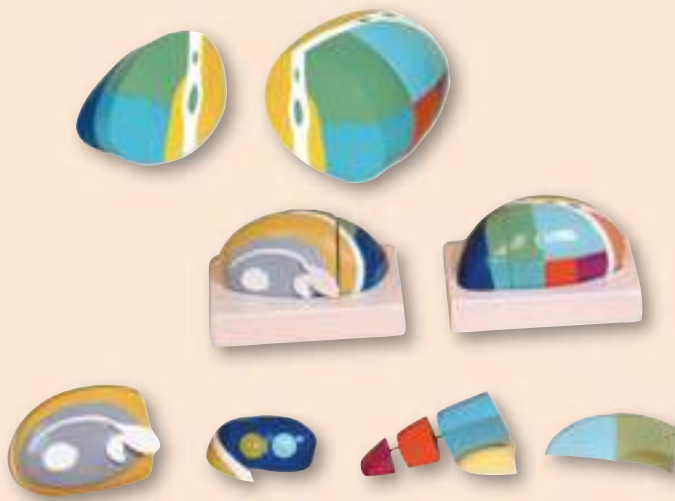
This life-size model can be divided into three parts: Cerebellum and Brainstem, longitudinally sectioned, showing the insertions of the cranial nerves and the inner anatomy. All the different structures are numbered and identified on the accompanying key card. Mounted on base.

**Size: 13 x 9 x 14 cm**

**Weight: 0.5 kg**

**Ref.no. C160**





### **Thalamus, 2-parts**

5X life size. This 2-part model shows the various functional areas of the thalamus in distinct colors, thus providing a clear distinction between the different nuclei of each structure. Mounted on base.

**Size: 16 x 12 x 10 cm**

**Weight: 0.7 kg**

**Ref.no. K156**

### **Thalamus 5-parts**

Same model as **K156** but in 5 parts. Mounted on base.

**Size: 16 x 12 x 10 cm**

**Weight: 0.7 kg**

**Ref.no. K157**

**K158**

### **Thalamus 7-parts**

Same model as **K156** but in 7 parts. Mounted on base.

**Size: 16 x 12 x 10 cm**

**Weight: 0.7 kg**

**Ref.no. K158**



**C164**

### **Brainstem, enlarged 3 times**

An important support for understanding the deeper anatomy of the brain. This single piece model, enlarged 3 times, displays all the neurological tracts, exiting cranial and peripheral nerves in fine detail. The principal anatomical structures are numbered and identified on the accompanying key card (included).

**Size: 26 x 17 x 13 cm, Weight: 0.9 kg**

**Ref.no. C164**



**C162**

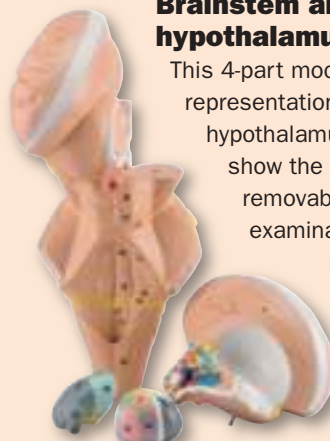
### **Brainstem and nuclei of the hypothalamus**

This 4-part model, 2X life-size, is a detailed representation of the human brainstem and hypothalamus. The brainstem is sectioned to show the hypothalamic nuclei; the thalamus is removable and divisible into two parts for inner examination. The insertions of the cranial nerves are easily recognizable on the surface of the brainstem.

**Size: 25 x 18 x 25 cm**

**Weight: 1.2 kg**

**Ref.no. C162**





**C163**

### **Ventricles and basal nuclei**

This life-size model is an important tool to study the topography of the cerebral ventricles related to the basal nuclei. All the different structures are reproduced in great detail and identified on the accompanying key card.

**Size:** 10 x 9 x 10 cm

**Weight:** 0.1 kg

**Ref.no.** C163



**C161**

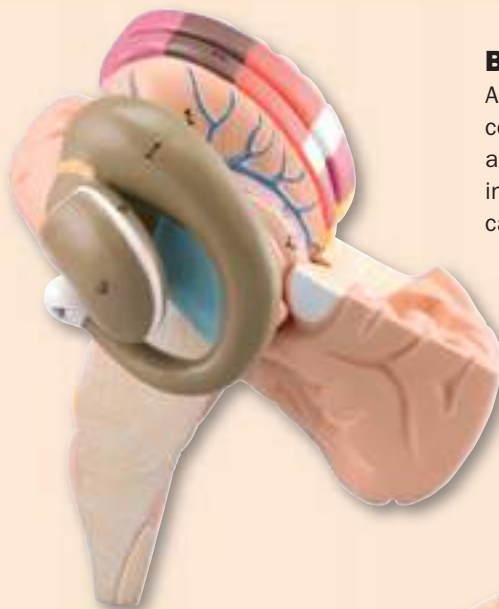
### **Diencephalon**

This 4-part model, 5X life-size, shows the human diencephalon: all the main parts of thalamus, epithalamus, metathalamus and hypothalamus are represented in great detail. The hypothalamic nuclei are displayed in different colours; the thalamus is removable and divisible into two parts to show the inner anatomy.

**Size:** 25 x 18 x 25 cm

**Weight:** 1.2 kg

**Ref.no.** C161



### **Basal nuclei and internal capsule**

A fundamental support to study the human deep neuroanatomy. Greatly enlarged, composed of 2 parts, it clearly shows - with the aid of false colours - the principal anatomical structures such as the caudate nucleus, the lentiform nucleus and the genu of the internal capsule. The main structures are numbered and refer to the accompanying key card.

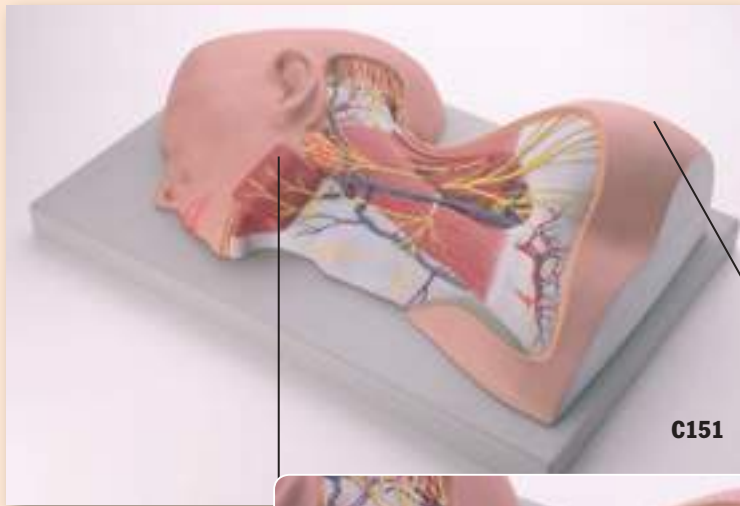
**Size:** 12 x 12 x 8 cm

**Weight:** 0.2 kg

**Ref.no.** C165



**C165**



### Nerves of the neck region

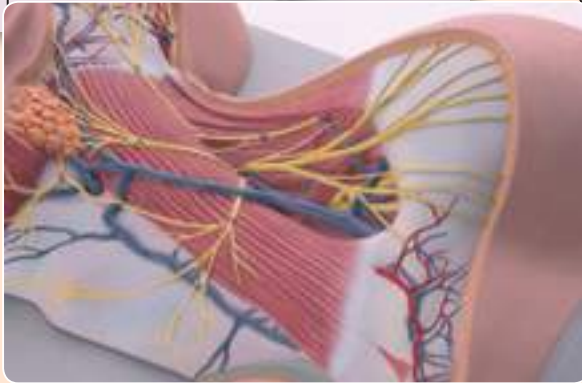
This life size model shows the distribution of superficial branches of the cervical plexus. Mounted on board.

**Size: 40 x 26 x 11 cm**

**Weight: approx. 2 kg**

**Ref.no. C151**

**C151**



**C135**



### Cranial and autonomic nerves, 2 parts

2.5X life size. Dissection of human half head shows the 12 cranial nerves with collateral branches and autonomic nerves. Median section reveals the upper respiratory tract and pharynx. The eyeball is removable for close examination. Mounted on base.

**Size: 33 x 23 x 40 cm**

**Weight: approx. 1.8 kg**

**Ref.no. C135**



**C140**

### Nervous System, 1/2 life-size

This 1/2 life-size relief model shows a general view of the peripheral and central human nervous system: the head is open to reveal the brain and cerebellum; the pathway of the main nerves is well illustrated in relation to the skeleton. Mounted on board.

**Size: 90 x 32 x 11 cm**

**Weight: 3.7 kg**

**Ref.no. C140**





### Neuron, 2 parts

This item, magnified 2,500 times, displays the structure of a typical neuron. The sectioned soma shows all the internal cellular organs including nucleus, Golgi complex, smooth and rough endoplasmic reticulum. The dendrite can be opened into two parts to reveal the internal structures such as the Schwann cell and myelin sheath. Mounted on board.

**Size: 53 x 38 x 17 cm, Weight: 2.2 kg Ref.no. C141**



### 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**



### Cranial layers

Enlarged several times. This model shows the stratification of the human cranium, revealing details of internal structures from the skin to the cerebral white matter. Mounted on board.

**Size: 26 x 40 x 13 cm**

**Weight: approx. 1.8 kg**

**Ref.no. C139**



### 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**



**J213**

### **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**

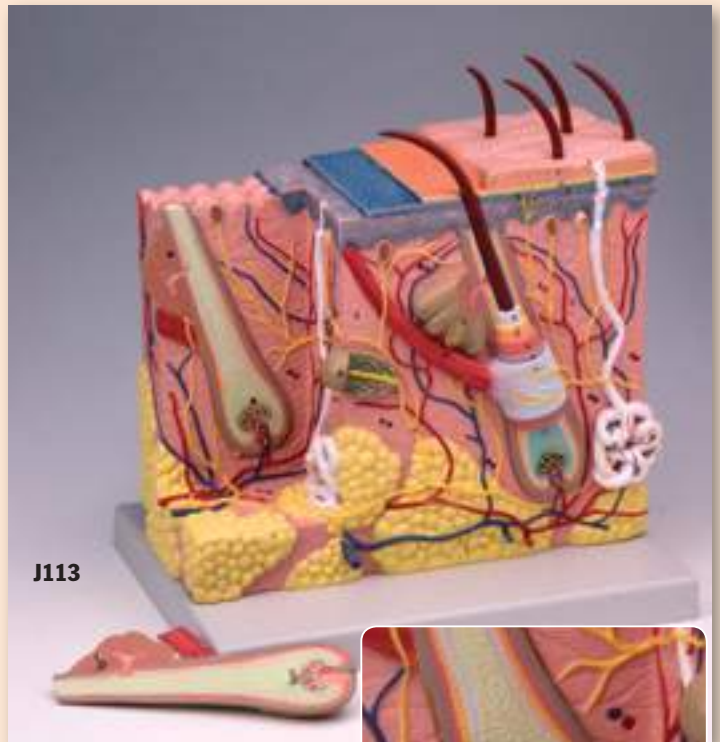
### **Skin model, 70 times life size**

This model is composed of 2 parts and shows the structure of the human skin in three dimensions. Anatomical structures are shown in detail, including the hair follicles; sebaceous glands; sweat glands; erector muscles, Pacinian corpuscles, nerves; and blood vessels. The different layers of the skin are clearly defined. A portion of a hair shaft can be removed to show internal details. Mounted on base.

**Size: 25 x 18 x 28 cm**

**Weight: approx. 1.5 kg**

**Ref.no. J113**



**J113**



**J214**

### **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**



**J60**

### **Nail model, 5 times full size**

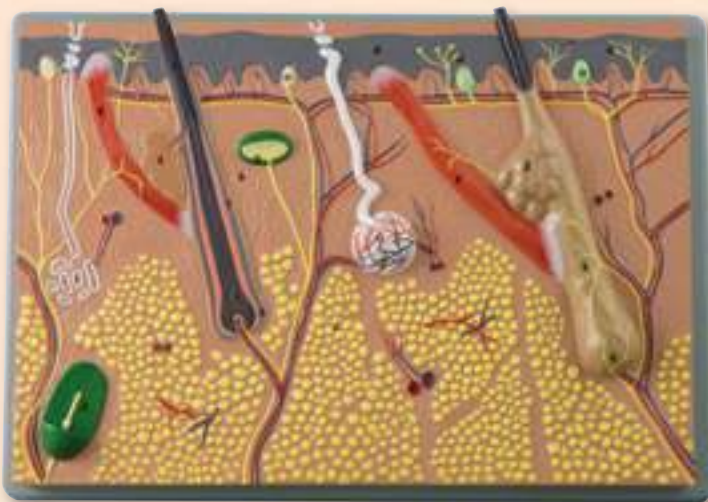
This approximately 5 times enlarged model of the terminal part of a typical digit with its associated bone structure shows three sectional views of the nail root and bed, germinative region and bone. Mounted on base.

**Size: 25.5 x 12.5 x 10 cm**

**Ref.no. J60**







**J110**

### Skin section

This 70X relief model shows the main structures through 3 layers of the hairy skin: hair follicles, sebaceous and sweat glands, erector muscles, sensitive corpuscles, nerves and blood vessels are well defined.

**Size:** 33 x 23 x 6 cm

**Weight:** 1.4 kg

**Ref.no.** J110



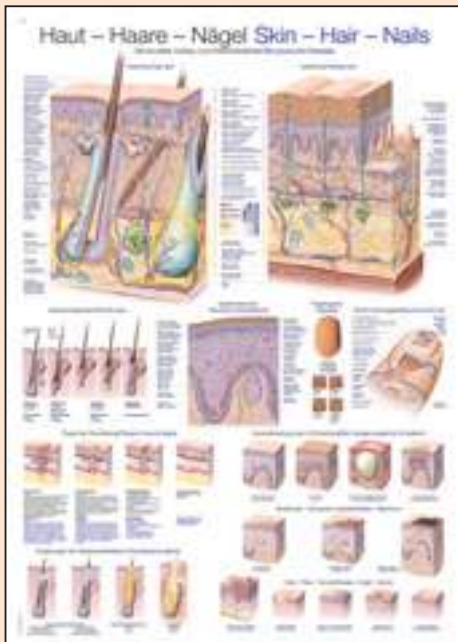
**J111**

### Hairy and hairless skin model

This 70X relief model compares a section of hairy skin to one without hair. All structures, including sensitive corpuscles, hair follicles, sebaceous and sweat glands, are shown in great detail. Mounted on board.

**Size:** 53 x 38 x 6 cm , **Weight:** 2.7 kg

**Ref.no.** J111



### Chart „Skin-Hair-Nails“

**70x100cm,**

Plastic, with metal edging and hanger

German/English!

**Ref.no.** AL121

**50x70cm,**

Art paper, with rods and hanger

German/English!

**Ref.no.** AL521



**J61**

### Hair Model

This item is composed of four different models on the same base: the first one is a longitudinal section, 100X life size, of the hair root. The other three models are cross sections, greatly enlarged, of the hair shaft, hair root and hair bulb. The use of unauthentic colours makes it easy to identify all the different layers, such as external and internal root sheath, cuticle and cortex, that make up the hair.

Mounted on board.

**Size:** 53 x 38 x 11 cm

**Weight:** approx 950 g

**Ref.no.** J61



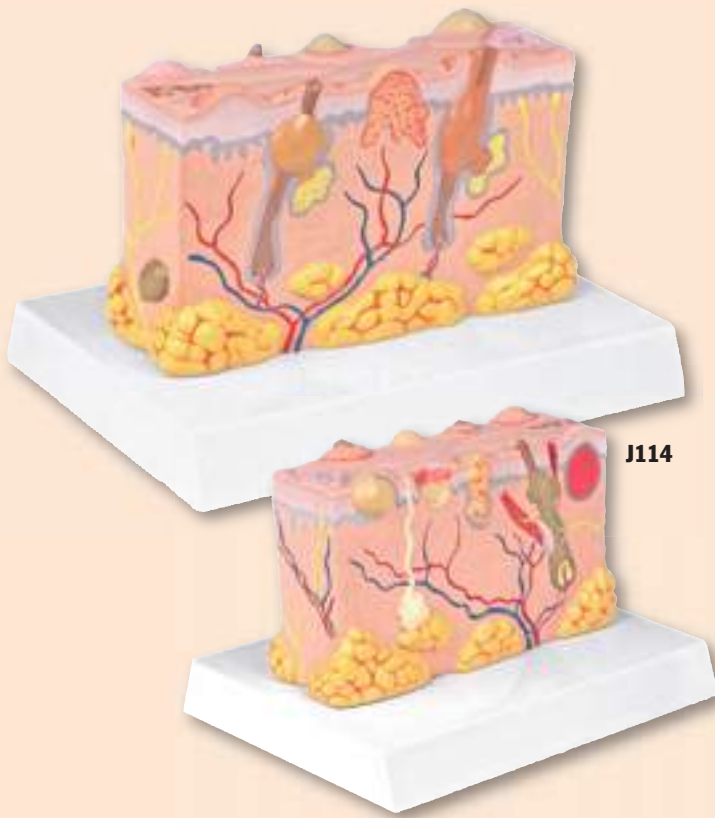
### Pathological Model of the Skin

This model, approximately 30X life size, features, on the one side, detailed and realistic depictions of closed and open acne lesions, 2 primary lesions (papule and macule), 1 deeper lesion, (nodule) and an abrasion. On the other side the model shows cyst, fissure, pustule, ulcer, scale and blister. All the pathologies are showed separately in the model with a realistic representation of their morphology. Mounted on base.

**Size: 16.5 x 12 x 11.5 cm**

**Weight: 0.4 kg**

**Ref.no. J114**



**J114**

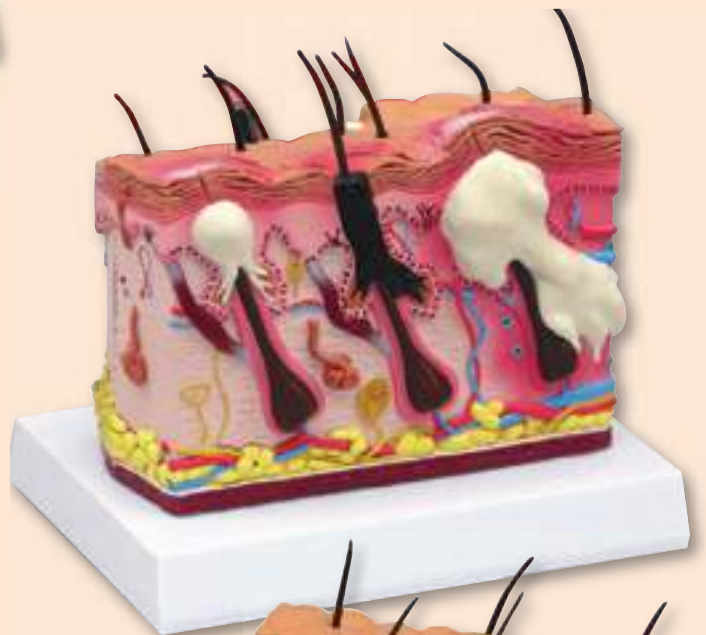
### Skin Model showing normal anatomy and skin acne

Enlarged 2-sided skin cross-section. The acne side of the model displays 3 conditions; Whitehead, Blackhead and Pustule/Cyst.

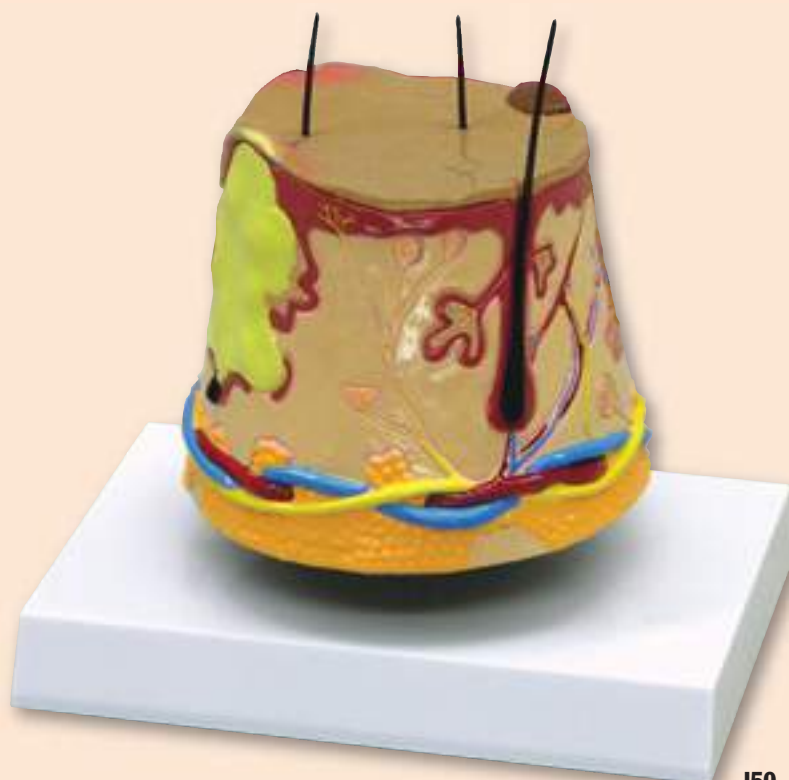
The reverse side illustrates normal skin anatomy. With stand.

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

**Ref.no. J51**



**J51**



**J50**

### 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**



### Burned Skin Model

This model, approx. 30 times enlarged, compares normal skin with first, second and third degree burnt skin, showing also the subsequent pathological changes. The first level of injury shows scarfskin hurt and erythema; the second one includes hypoderma skin hurt and vesicles, the third one reveals a subcutaneous damage. Mounted on base.

**Size:** 19.5 x 14 x 5 x 10 cm

**Weight:** 0,5 kg

**Ref.no.** J66

J66

### 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



J65



J55

### 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

**New**



### Precancerous and cancerous Skin lesions

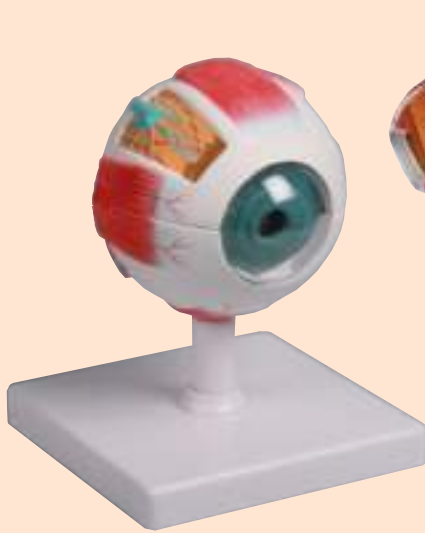
This model presents full size and enlarged views of dysplastic nevus, actinic keratosis, malignant melanoma, squamous cell carcinoma, and basal cell carcinoma skin lesions. Each disk has a 3-dimensionsl surface to help demonstrate the skin condition. Back side of disks presents additional lesion information.

**Size:** Diameter 10 cm, thickness 4 cm

**Ref.No.:** J56



J56



**F210**

### **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: 350 g**

**Ref.no. F210**



**F110**

### **Eye, 6 times life size, 6 parts**

Model can be bisected on the horizontal plane 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 shown. Mounted on stand.

**Size: 16 x 17 x 26 cm**

**Weight: approx. 1.1 kg**

**Ref.no. F110**



**F25**

### **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**



**R10123**

### **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**





F140



### Eye with orbit, 4 parts

5X life size. Model shows the eyeball with optic nerves and muscles in its natural position in the bony orbit.

#### The removable parts are:

- rectus lateralis muscle
- levator palpebrae superioris muscle together with the lacrimal gland
- eyeball with extrinsic eye muscles
- base of bony orbit

Mounted on base.

**Size: 42 x 30 x 31 cm**

**Weight: approx. 3.2 kg**

**Ref.no. F140**



F150



### Eye with orbit, 11 parts

5X life size. Model shows the eyeball with optic nerves and muscles in its natural position in the bony orbit. The eyeball is dissected in two removable halves, with internal structures fully exposed.

#### The removable parts are:

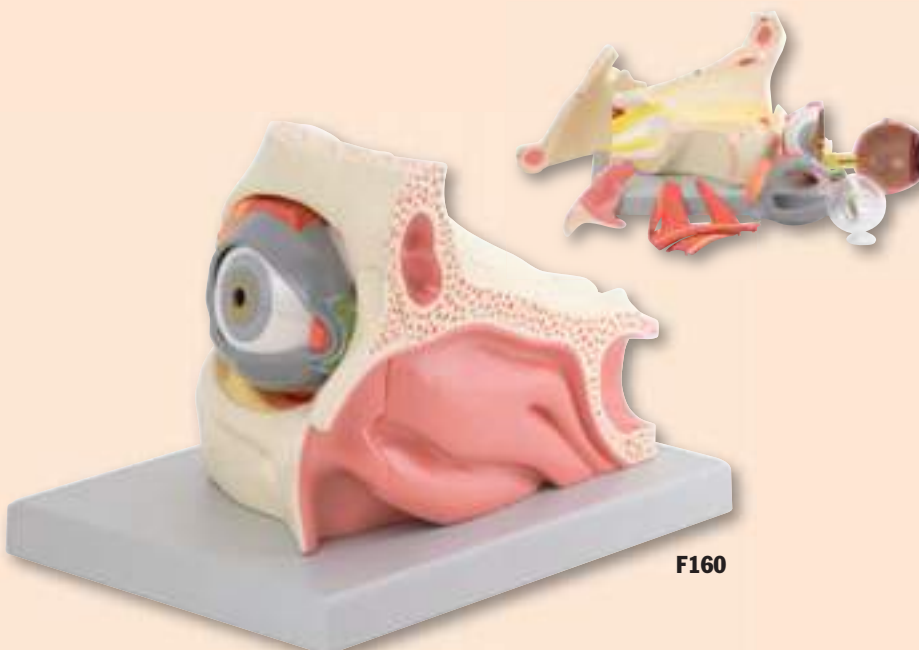
- cornea, iris, lens and vitreous body (4 parts)
- three different muscles rectus bulbi
- levator palpebrae superioris muscle together with the lacrimal gland
- eyeball with extraocular muscles (2 parts)
- base of bony orbit

Mounted on base.

**Size: 42 x 30 x 31 cm**

**Weight: approx. 3.4 kg**

**Ref.no. F150**



F160

### Eye in orbit with eyelid

This 13- part model, enlarged approximately 2,5X life-size, shows the anatomy of the human eye.

#### The orbit can be opened into 3 parts to reveal the internal structures:

- eyelid with lacrimal gland and duct
- muscles (4 parts)
- eyeball dissected in 2 removable halves
- cornea, iris, lens and vitreous body (3 parts).

Mounted on base.

**Size: 25 x 18 x 18.5 cm**

**Weight: 2.2 kg**

**Ref.no. F160**



### 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**

**F85**



### 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**

**F80**

### 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**



**R16100**

**New**



**E220**

### **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**



**E20**

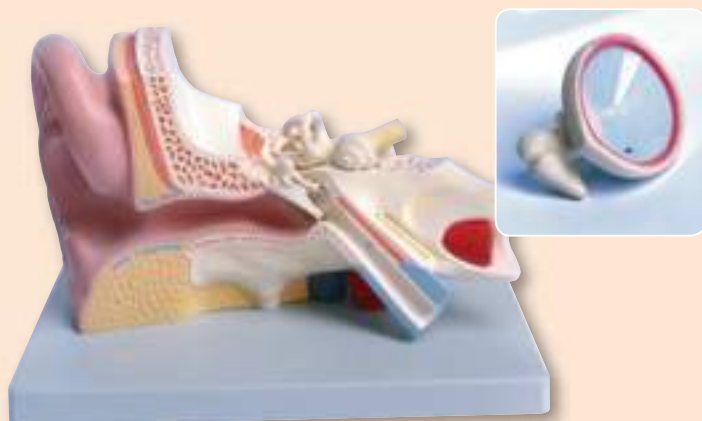
### **Ear model, life size**

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**



**E111**

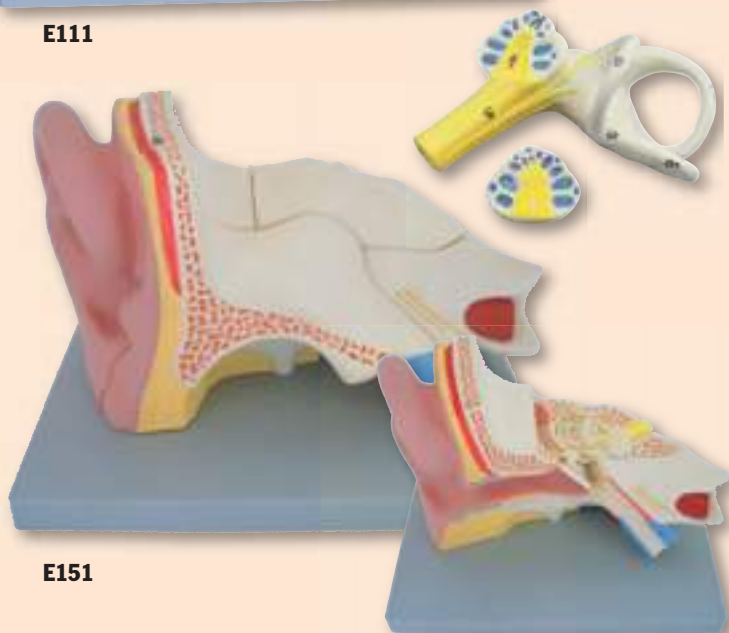
### **Ear, 4 parts**

3 x life size. Model shows details of the external, middle and inner ear. The eardrum with malleus, incus and stapes are removable. The other removable part is composed of the cochlea and labyrinth with vestibular and cochlear nerves, the cochlea can be opened. Mounted on base.

**Size: 33 x 23 x 21 cm**

**Weight: approx. 1 kg**

**Ref.no. E111**



**E151**

### **Ear, 6 parts**

3 x life size. Model shows the external, middle and inner ear. The eardrum with malleus, incus and stapes are removable. The other removable part is composed of the cochlea and labyrinth with vestibular and cochlear nerves, the cochlea can be opened. The model has two removable bone covers. Mounted on base.

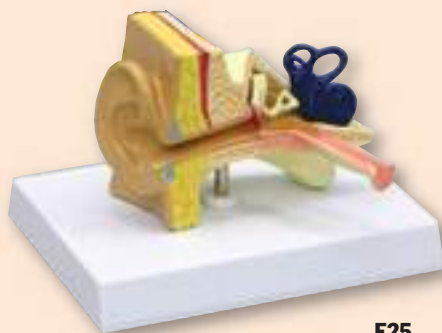
**Size: 33 x 23 x 21 cm**

**Weight: approx. 2 kg**

**Ref.no. E151**

**New**





**E25**

### 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**

### Ear Diseases

This 1.5 times life size model shows the most common pathologies affecting the outer, middle and inner ear. At the level of the Eustachian tube you can see the mucus and secretory otitis media; the cholesteatoma and eczema are also represented in high detail. On the additional relieves you can see a comparison of three different eardrums; the first one is healthy, the second one exhibits a perforation and the third one is showing the bullous myringitis.

Mounted on base.

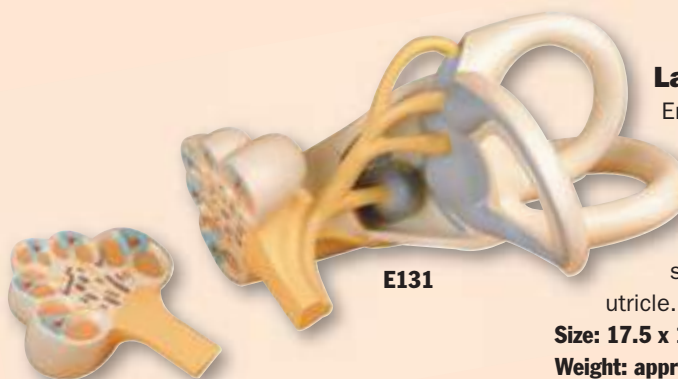
**Size: 20 x 15 x 10 cm**

**Weight: 0.25 kg**

**Ref.no. E135**



**E135**



**E131**

### Labyrinth, 2 parts

Enlarged about 18 times.

Composed of 2 parts.

The superior semicircular canal and vestibule are open, showing the saccule and utricle.

**Size: 17.5 x 13.5 x 33 cm**

**Weight: approx. 0.9 kg**

**Ref.no. E131**



**E132**

### Cochlear duct and organ of corti

350X life size; composed of 5 parts. This model shows a three dimensional section of the cochlear duct, tectorial membrane, basilar membrane and vestibular membrane. The organ of Corti is well represented, including the cellular acoustics receptors that transform sound vibrations to electric signals.

**Size: 47.5 x 18 x 32 cm**

**Weight: approx. 3.9 kg**

**Ref.no. E132**



**E136**

### Cochlea and corti's organ

This single piece model is a useful tool to study the mechanism of sound reception. The model shows an enlarged section of the cochlea and corti's organ including hair cells, tectorial and basilar membrane.

Mounted on board.

**Size: 40 x 26 x 5 cm**

**Weight: 1.2 kg**

**Ref.no. E136**



**E130**

### Ear ossicles

This model represents the malleus, incus and stapes, enlarged about 20 times.

**Size: approx. 23 x 25 x 23 cm**

**Weight: approx. 0.4 kg**

**Ref.no. E130**

## 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.

**Supplied with 11 pair of ears with the following cases:**

- Normal
- Normal with wider auditory canal
- Serous otitis media; SOM
- Mucoid otitis media; MOM
- Chronic suppurative otitis media; CSOM
- Acute suppurative otitis media; AOM
- Cholesteatoma
- Tympanosclerosis
- Traumatic perforations
- Cerumen block
- Practice of foreign substance removal

Supplied with simulated earwax, small toy and small sponge sphere for training at removing foreign bodies.

**Size: 42 x 22 x 38 cm**

**Weight: approx. 2 kg**

**Ref.no. R16110**



**R16110**



**LM02**

## 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**



**E133**

## 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**

## 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**

## 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**



**R10029**

## 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**

## 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**



**R10901**

**R10900**





**D250**

### 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**



**D214**

**New**

### 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**



**4511**

### 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**



**D125**

### Lower jaw, 6 parts

This 3X life size model is divisible into 6 parts to show all the characteristics of an adult half mandible. A portion of the jaw can be removed to show the roots of the teeth and the internal structure of the bone. Canine and molar teeth can be removed and bisected longitudinally to observe the tooth roots, pulp and nerves. Mounted on stand.

**Size: 35 x 18 x 31 cm**

**Weight: approx. 1.1 kg**

**Ref.no. D125**



**R10125**

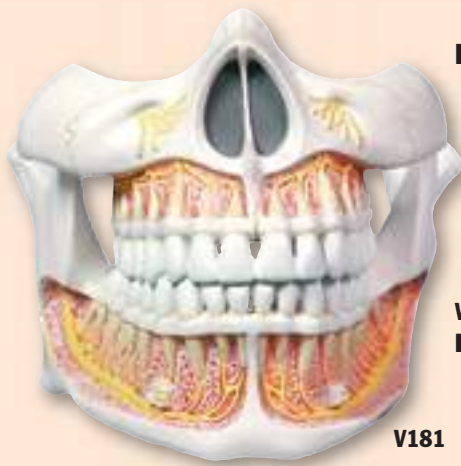
### Incisor, canine and molar

Five-part model includes representations (10X life size) of human incisor, canine and molar teeth. The canine and molar can be divided into 2 parts each, showing internal features (dentine, enamel, cement and pulp).

**Size: 33 x 33 x 11 cm**

**Weight: approx. 0.7 kg**

**Ref.no. D110**



V181

### Permanent Teeth Model

This life size model shows the upper and lower jaw of an adult. The lower jaw is movable to reproduce the natural chew. The model exposes the complete set of permanent teeth with roots and nerves fibres. Mounted on stand.

**Size:** 11 x 11 x 12 cm

**Weight:** 0.2 kg

**Ref.no.** V181



D115

### Dental pathology model

This 4X life size model shows the process of dental caries in its progressive stages. The tissues forming the tooth (enamel, dentine and pulp) are shown, along with the way in which they are affected by the caries process.

**Size:** 6 x 4.5 x 11 cm

**Weight:** approx. 0.1 kg

**Ref.no.** D115



V182

### Deciduous Teeth Model

This life size model shows the upper and lower jaw of a 5 year old child. The lower jaw is movable to reproduce the natural chew. The model exposes the arrangement of the young teeth. Mounted on stand.

**Size:** 9 x 10 x 9 cm

**Weight:** 85 g

**Ref.no.** V182



D151



### Dental caries model

This model, composed of 7 parts, is 4X life size. It consists of three teeth, seated in their sockets, that shows the progressive deterioration of tooth structure by dental caries. The first tooth shows the caries in the enamel. In the second tooth, the caries invades the dentine. In the third tooth, the pathology affects the pulp, jeopardizing the vitality of the tooth.

**Size:** 12 x 6 x 6 cm

**Weight:** approx. 0.3 kg

**Ref.no.** D151



D110

### Incisor, canine and molar

Five-part model includes representations (10X life size) of human incisor, canine and molar teeth. The canine and molar can be divided into 2 parts each, showing internal features (dentine, enamel, cement and pulp).

**Size:** 33 x 33 x 11 cm, **Weight:** approx. 0.7 kg

**Ref.no.** D110





**D217**

### **Oral hygiene model 1.5times 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**

### **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

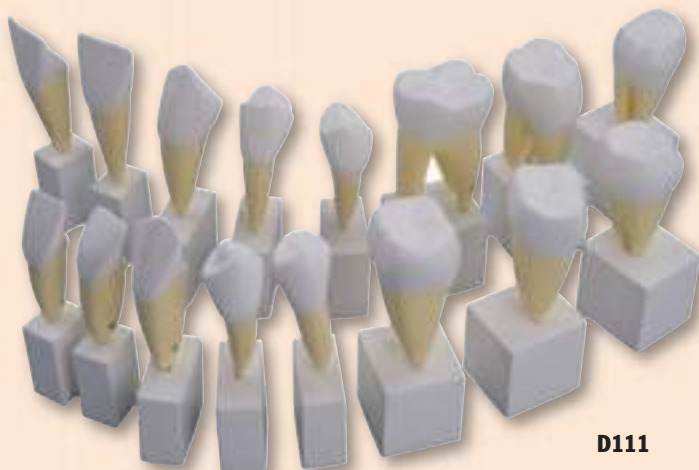
**Size: 15 x 16 x 22 cm**

**Weight: approx. 1 kg**

**Ref.no. D216**



**D216**



**D111**

### **Model series permanent teeth**

This set model, composed of 16 pieces, shows in great detail the morphology of the permanent teeth. Maxillary and mandibular tooth types (incisors, canines, premolars and molars) are represented, enlarged to 4X life size.

**Size each: 5 x 5 x 14,5 cm**

**Weight: each 0,2 kg**

**Ref.no. D111**



**D112**

### **Model primary teeth**

This 10-piece model is a useful tool to study the morphology of primary tooth types (incisors, canines and molars). Enlarged to 10X life-size. Mounted on base.

**Size: 53 x 38 x 15 cm**

**Weight: 1.400 kg**

**Ref.no. D112**





**G123**

### **Larynx Model, life size, 2 parts**

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

**Size: 11 x 11 x 15 cm**

**Weight: 0.2 kg**

**Ref.no. G123**

### **Larynx Model, 2 Times Enlarged, 5 Parts**

This 5-part model is sectioned longitudinally to reveal intimate details of internal structures, including the hyoid bone, cartilages, ligaments, muscles, vessels, nerves and thyroid gland. Mounted on stand.

**Size: 18 x 11 x 8 cm, Weight: 0.5 kg**

**Ref.no. G121**



**G121**



### **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**



**G120**



**C133**

### **Head with throat and pharynx**

This life size head model is dissected along the sagittal plane into 2 halves. Details of the oronasal cavity and larynx as well as musculature of the pharynx are exceptionally well represented. Mounted on base with stand.

**Size: 15 x 15 x 30 cm**

**Weight: approx. 0.8 kg**

**Ref.no. C133**



## 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**



**G11**

## Thyroid Diseases, 4 Parts

This model set is composed by 2 thyroid models divided four ways. The first thyroid illustrates the Graves autoimmune disease, the most common cause of hyperthyroidism. The other model shows thyroid adenoma and carcinoma as compared to the normal right side of the thyroid. Mounted on stand.

**Size: 33 x 23 x 25 cm, Weight: 0.5 kg**

**Ref.no. G122**



**G122**

## 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: 0.12 kg**

**Ref.no. G33**



**G33**



**G151**

## Pathological Model of the Bronchi

This 10x life size, 1-part model, shows 2 pathologies of the bronchi (bronchitis and bronchiectasis), referring to an inflammation and an abnormal chronic dilatation of one or more of the bronchi, respectively. Mounted on stand.

**Size: 11 x 11 x 20 cm, Weight: 0.24 kg**

**Ref.no. G151**

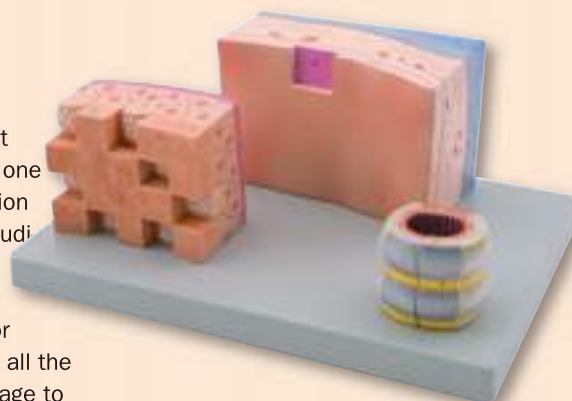
## Trachea Section Model

This item is composed of 3 different models on the same base: the first one reproduces a 3x life size cross-section of a human trachea; it can be longitudinally divided into two parts to show the inner anatomy. The second model is an enlargement of the anterior trachea wall cross-section; it shows all the different layers, from tracheal cartilage to the epithelium. The third one shows the magnified pseudostratified ciliated epithelium in great detail: it displays the typical ciliated cells and the musous cells.

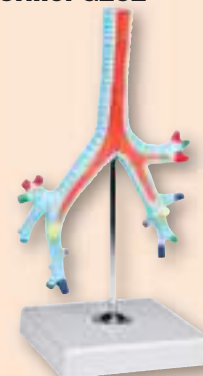
**Size: 33 x 23 x 13.5 cm**

**Weight: 1.6 kg**

**Ref.no. G155**



**G155**



**G152**

## Model of Segmental Bronchi

This life size model shows the bronchial tree from the bifurcation of the trachea through its subsequent subdivisions to the bronchopulmonary segments, displayed in different colours. Mounted on stand.

**Size: 11.5 x 11.5 x 27.5 cm**

**Ref.No. G152**



**New**

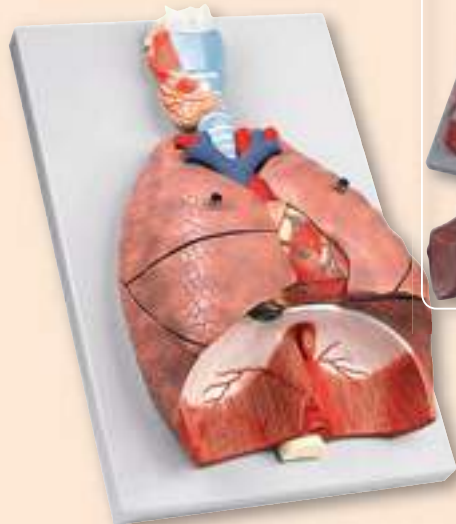
**G216**

### 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**



**G115**

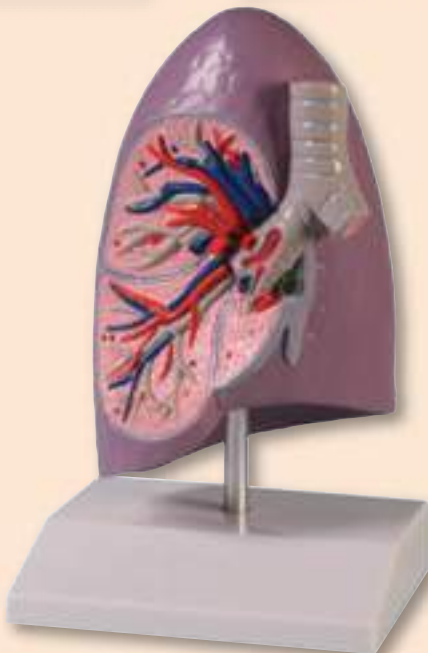
### Lungs, Heart and Pharynx, 7 parts

A life size reproduction of the complete human respiratory system. It is composed of 7 parts showing the larynx (dissected along the sagittal plane); the lungs (dissected along the frontal plane); and a two-part heart. Mounted on base

**Size: 26 x 40 x 12 cm**

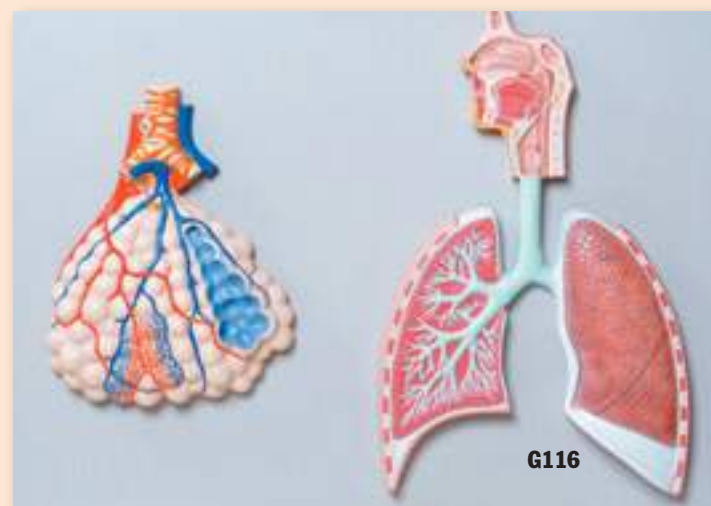
**Weight: approx. 1.3 kg**

**Ref.no. G115**



**G253**

**New**



**G116**

### Human respiratory system with magnified alveolus

A relief model of the respiratory system, including the oronasal cavity, larynx, trachea, primary bronchi and bronchial tree. The upper respiratory tract is sectioned along the medial sagittal plane. An alveolus with blood vessels (about 150X life size) is shown with excellent internal detail. Mounted on base.

**Size: 53 x 38 x 6 cm, Weight: approx. 2.2 kg**

**Ref.no. G116**

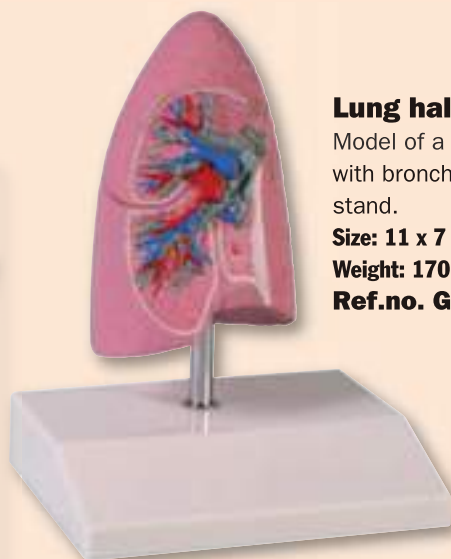
### Lung half, 1/2 life size

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: 170 g**

**Ref.no. G252**



**G252**

### 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 g**

**Ref.no. G253**





**G128**

### **Left and right lungs**

Life size. This 2-part model is a realistic representation of human lungs with all external features. Mounted on base with stand.

**Size:** 33 x 23 x 31 cm, **Weight:** approx. 1.1 kg

**Ref.no.** G128



**G129**

### **Segmental lungs**

This life size model shows clearly the segmental anatomy of the left and the right lungs. The various lobes are painted with different colours to highlight their locations.

Mounted on base with stand

**Size:** 33 x 23 x 31 cm, **Weight:** approx 1.1 kg

**Ref.no.** G129



### **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



**G52**



**G150**

### **Pathological Model of the Lung**

This 1-part, 2/3 life size model illustrates some of pathologies of the pulmonary system caused by microbial infections (lung abscess, pneumonia and tuberculosis). The surface of the model is black to show the visible effect of smoking. A cancerous tumor is also shown with excellent detail. All the pathologies are showed separately in the model with a realistic representation of their morphology. Mounted on stand.

**Size:** 11 x 11 x 19 cm, **Weight:** 0.4 kg

**Ref.no.** G150



**R10062**

### **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 dramatic demonstration!

**Ref.no. R10062**



**R10063**



### **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, diseased 14 x 22 x 13 cm**

**Ref.no. R10063**



**R10060**

### **Lung Demonstration Model**

This model contains a natural swine lung 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**



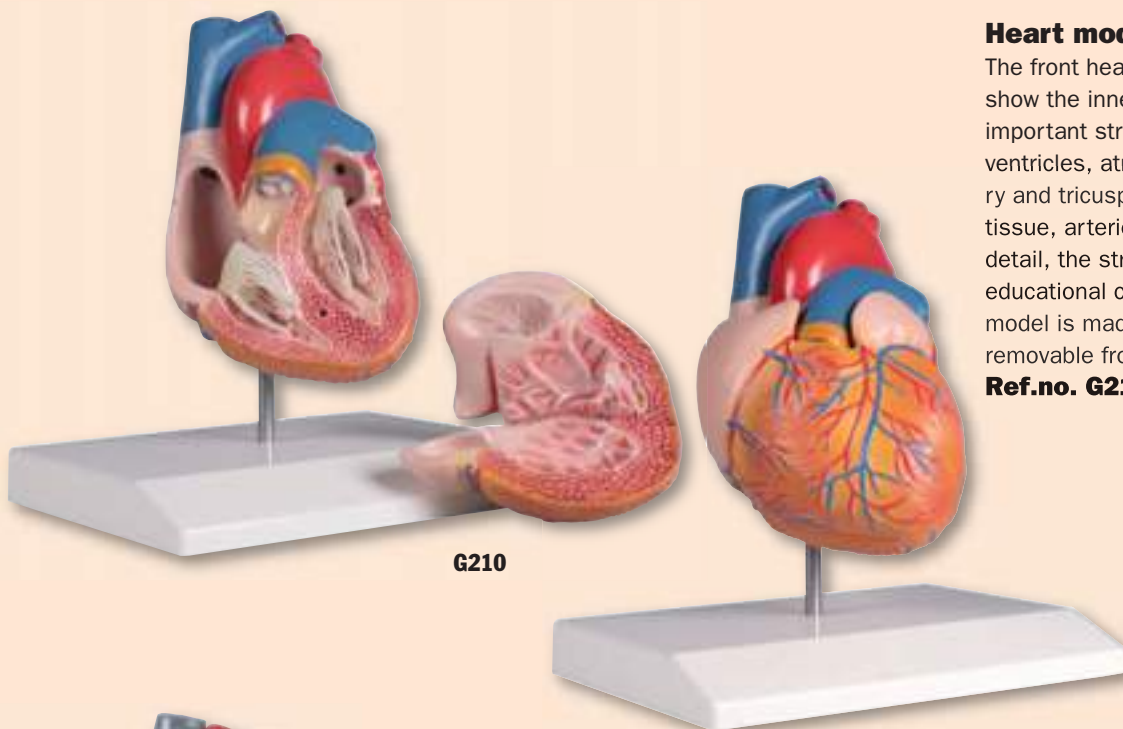
**R10061**

### **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**

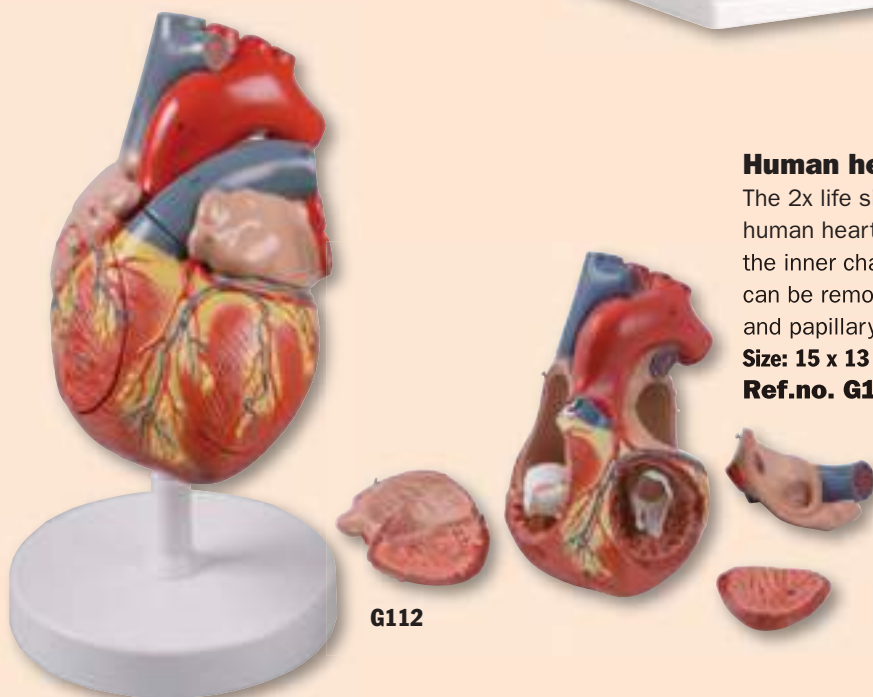


**G210**

### **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.

**Ref.no. G210**



**G112**

### **Human heart, 2x life size, 4 parts**

The 2x life size model describes all the main structures of the human heart in great detail. The right part is detachable to expose the inner chambers and valves. The left auricle and ventricle wall can be removed to show the atrium, the mitral valve, the ventricle and papillary muscles.

**Size: 15 x 13 x 24 cm, Weight: 0.7 kg**

**Ref.no. G112**

### **Giant heart, 4 parts**

This 4-part model is 3X life size. 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. The right atrium is also removable. Mounted on base.

**Size : 24 x 25 x 28 cm**

**Weight: approx. 2.9 kg**

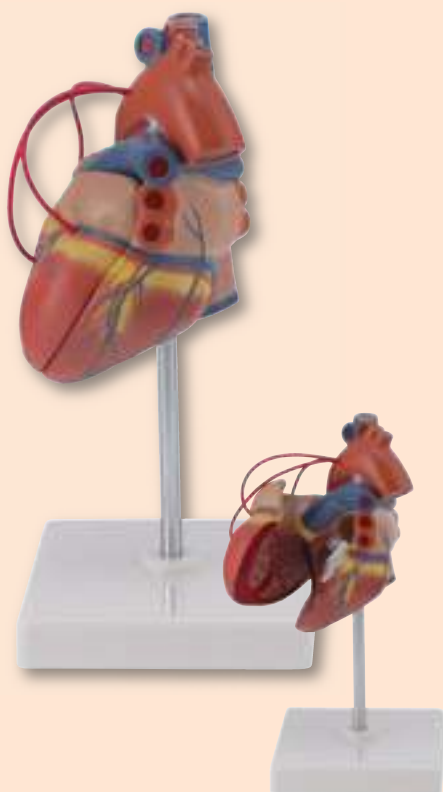
**Ref.no. G251**



**G251**







### 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: 11 x 11 x 25 cm , weight: 0,25 kg**  
**Ref.no. G105**



**G106**

### Heart with Bypass, 2x life size, 4 parts

The 2x life size model describes all the main structures of the human heart in great detail. The right part is detachable to expose the inner chambers and valves. The left auricle and ventricle wall can be removed to show the atrium, the mitral valve, the ventricle and papillary muscles. 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: 15 x 13 x 24 cm, weight: 0.7 kg**  
**Ref.No. G106**

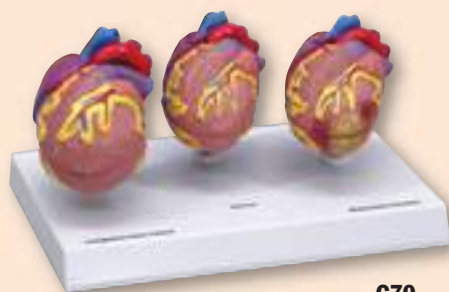


**G108**

### Heart with thymus

This three-part natural size model shows the anatomy of the human heart associated with the thymus gland. The thymus and the anterior heart wall can be removed for closer examination of the inner heart structures such as the left and right atria and ventricles, valves and papillary muscles. Mounted on stand.

**Size: 11 x 11 x 22 cm, Weight: 0,25 kg**  
**Ref.no. G108**

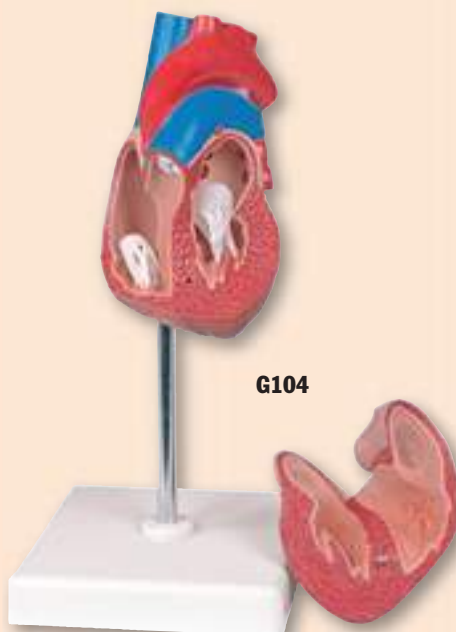


**G70**

### 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**

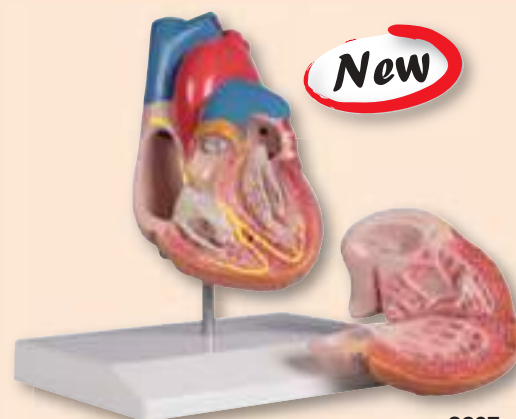


**G104**

### Heart Hypertrophy

This life size model shows the compensatory hypertrophy heart disease. This pathology is characterized by the myocardium thickening of the muscular fibres of the left ventricle. Hypertrophy heart disease is the complication of a chronic hypertension. The model is divided in 2 parts and mounted on stand.

**Size: 11 x 11 x 22 cm**  
**Weight: 0.3 kg**  
**Ref.no. G104**

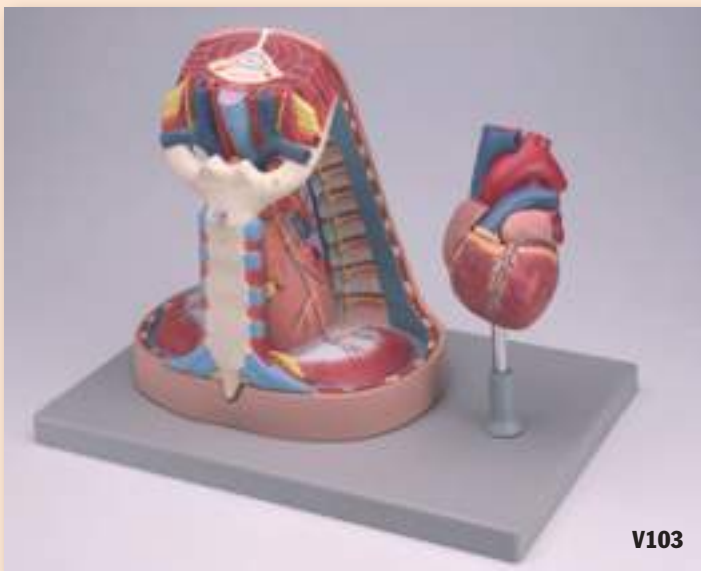


**G207**

### 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.

**Ref.no. G207**



**V103**



### Mediastinum

This life size model is composed of 5 parts, including a 2-part heart that provides an interior view of the chambers and valves. The sternum and thymus are removable to reveal the pericardial sac and the major pulmonary and systematic vessels. The trachea and esophagus are shown entering the mediastinum through the superior thoracic aperture; the inferior thoracic aperture is delimited from the diaphragm musculature. Mounted on base

**Size: 40 x 26 x 30 cm, Weight: approx. 2.3 kg**

**Ref.no. V103**



**G137**

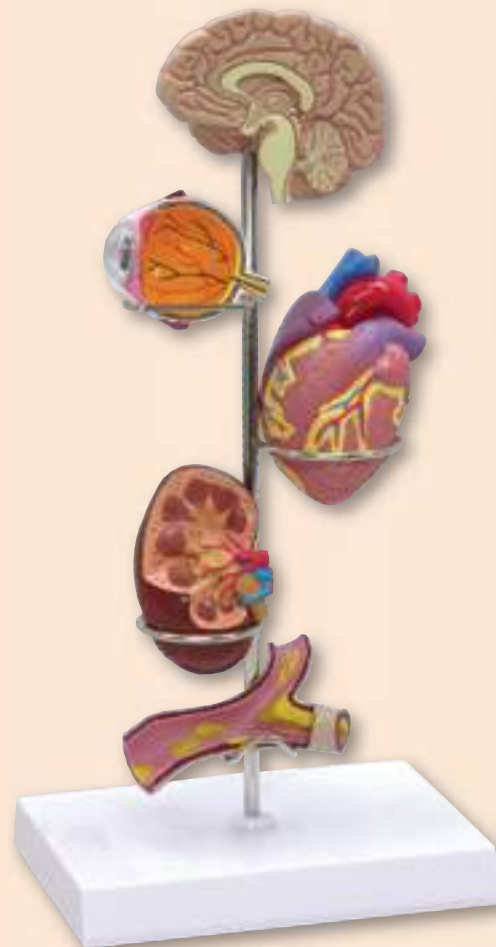
### Effects of Hypertension, 5 Parts

This model shows the effects of hypertension on brain, eye, heart, kidney and artery. the organs can be rotated for a detailed examination. Mounted on stand.

**Size: 16.6 x 12 x 36 cm,**

**Weight: 0.5 kg**

**Ref.no. G137**



**G37**

### 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**



### Human blood cells

Enlarged 2000 times, this model shows the various types of blood cells, including red blood cells; white blood cells (lymphocytes, monocytes, neutrophils, eosinophils and basophils); and blood platelets. Mounted on board.

**Size: 53 x 38 x 6.5 cm**

**Weight: approx. 2.7 kg**

**Ref.no. G165**



**G130**

### **Human Circulatory System, 1/2 natural size, 2 parts**

The model represents a general view of the human circulation. It includes the heart (2 parts), lungs, liver, spleen, kidneys and relevant connections with the pulmonary and systemic circulatory pathways. Mounted on a board.

**Size: 32 x 90 x 12 cm**

**Weight: 4.2 kg**

**Ref.no. G130**

### **Artery and Vein Model, 20x life size**

An important support for understanding the difference between artery and vein histology. In this single-piece model one artery and two veins are represented in great detail. One vein is longitudinally sectioned to show the closed and open venous valves; the artery and the right vein are cross-sectioned so the different layers, such as tunica media, elastic membrane and tunica adventitia, can be easily recognized. Mounted on base.

**Size: 20 x 30 x 27 cm**

**Weight: 0,8 kg**

**Ref.no. G142**



**R10075**

### **Functional Heart and Circulatory System**

This amazing working model will bring your lecture to life! A complete schematic model of the human circulatory system with "blood" (coloured water) that flows through transparent veins, arteries, capillaries and heart chambers. This model's special design portrays venous blood, a deep reddish purple and arterial blood, a bright red to give visual reinforcement to the oxygenation and deoxygenation of haemoglobin as it travels the body's vascular network. Mounted on a base-board with support legs and supplied with teacher's guide, red dye and syringe for refilling the system.

**Size: 36 x 16 x 38 cm**

**Ref.no. R10075**



### **Chart „The vascular system“ 70x100cm,**

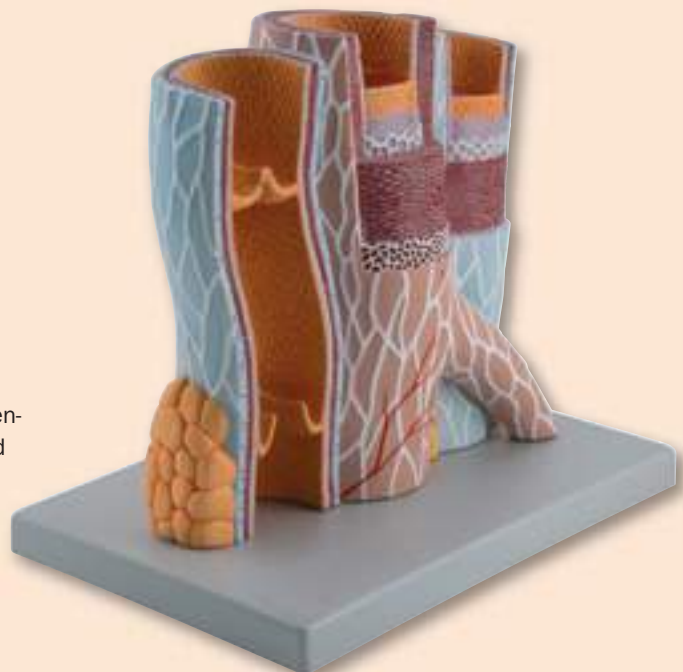
Plastic, with metal edging and hanger  
German, Latin, English

**Ref.no. AL106**

**50x70cm,**

Art paper, with rods and hanger  
German, Latin, English

**Ref.no. AL506**







**G65**

### Artery Model, 4 sections

4-stage cross-section of an artery demonstrating atherosclerosis in which the narrowing of the artery is due to a build up 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**



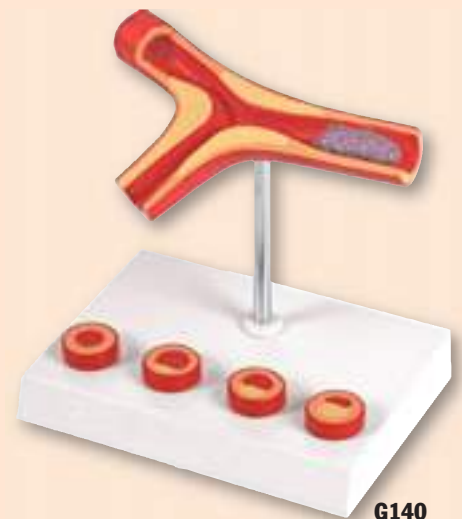
**G60**

### 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**



**G140**

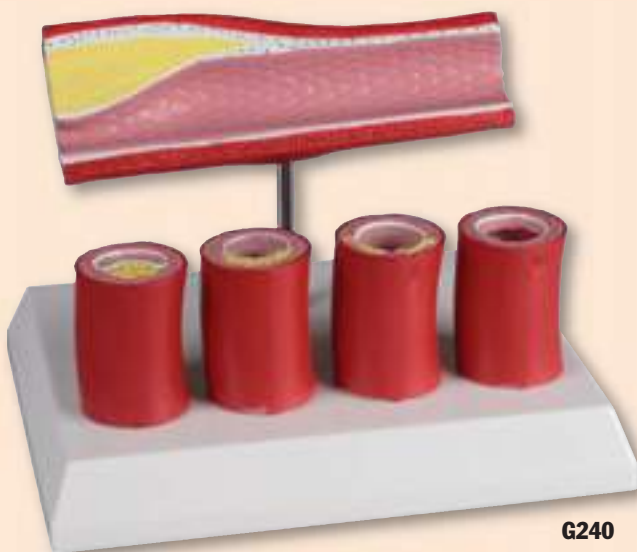
### Atherosclerosis and Thrombosis Model

Atherosclerosis is the most common acquired disease of arteries in developed countries. This pathology, characterized by thickening of the arterial walls with subsequent loss of elasticity, is associated with the build-up of plaque (mainly cholesterol) in the arterial lumen. This model, approximately 10X life size, shows the atheromatous plaque in various pathological stages along with local intravascular clotting (thrombosis) due to the arterial narrowing. Mounted on stand.

**Size: 16.5 x 13 x 15 cm**

**Weight: 0.3 kg**

**Ref.no. G140**



**G240**

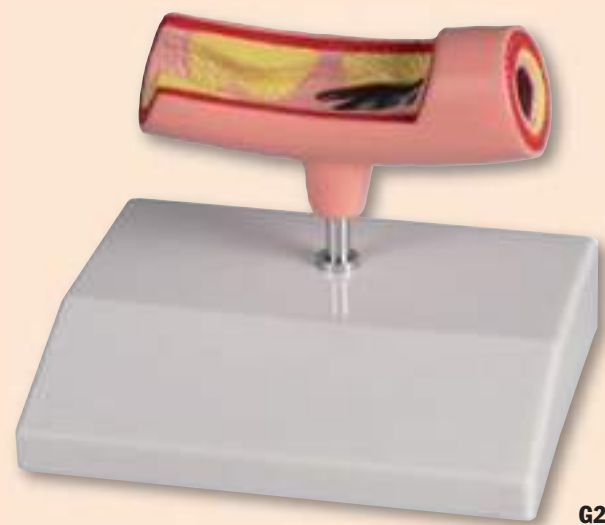
### Artery with 4 artery sections

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: 420 g**

**Ref.no. G240**



**G241**

### 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: 120 g**

**Ref.no. G241**



**K212**

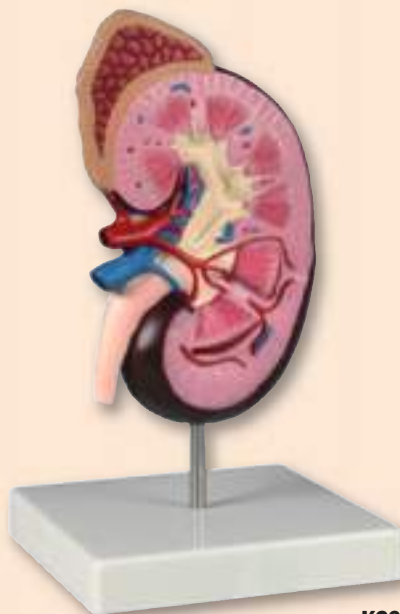
### **Kidney model**

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: 125 g**

**Ref.no. K212**



**K260**

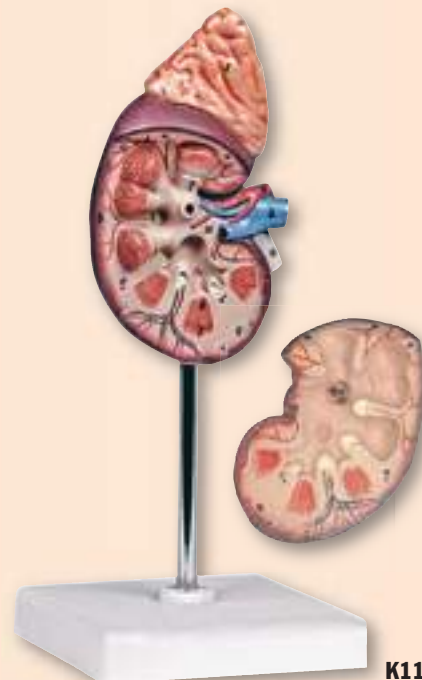
### **Kidney model, 2 times life size**

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: 270 g**

**Ref.no. K260**



**K113**

### **Kidney with Adrenal Gland, 1.5 times enlarged, 2 parts**

This 2-part model, 1.5X life size, shows the human kidney in frontal region. Internal structures are clearly revealed, including cortex, medulla, pyramids, calyces, renal pelvis (partially opened), ureter and origins of the renal artery and vein. The front of the model is removable for inner examination. Mounted on stand.

**Size: 25 x 10 x 10 cm**

**Weight: 0.3 kg**

**Ref.no. K113**



**K112**

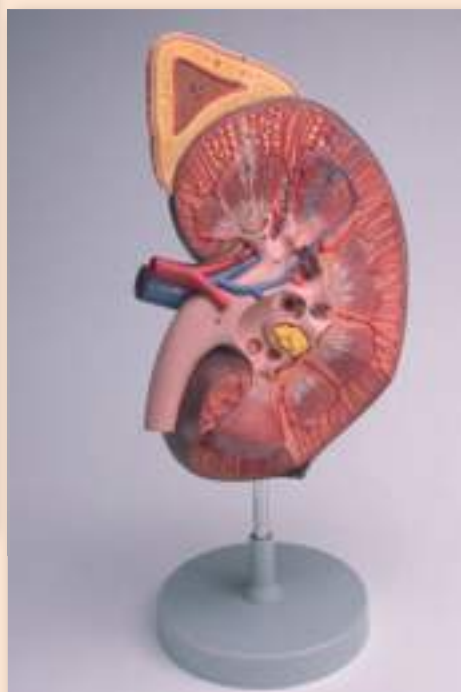
### **Kidney with adrenal gland, life size, 2 parts**

A life size model of the kidney with the adrenal gland. The model is sectioned along the front plane; can be divided in 2 parts to show internal structures, including the cortex; medulla; pyramids with papillae; partially open renal pelvis; ureter; and blood vessels. Mounted on stand.

**Size: 23.5 x 11 x 4 cm**

**Weight: approx. 0.2 kg**

**Ref.no. K112**



### **Kidney with adrenal gland, 3 times life size**

This model shows a frontal section of the human kidney enlarged 3 times. The kidney is shown with the renal capsule; additional structures include the cortex; medulla; pyramids with papillae; partially dissected renal pelvis; renal calyces; ureter; blood vessels; and suprarenal gland with cortex and medulla. Included is a schematic representation of the renal corpuscle with the system of collecting tubules. Mounted on base with stand

**Size: 40 x 15 x 8 cm**

**Weight: approx. 1.2 kg**

**Ref.no. K138**



**K138**



**K111**

### Kidney Section with Renal Nephron and Renal Corpuscle

This 3 models set shows the basic structure of the kidney. We can find as a first model a frontal section of the kidney, enlarged 3 times, illustrates adrenal gland, cortex, medulla, pyramids with papillae, renal pelvis and blood vessels. The second model, representing a nephron enlarged 120 times, shows renal tubules, a collecting tube system and Henle's loop. The third one illustrates Malpighian corpuscle with the Bowman's capsule, 700 times life size. All these models are a great instrument to understand the kidney anatomy in all the inner details. The three models are mounted on board.

**Size: 70 x 29 x 12 cm**

**Weight: 4.1 kg**

**Ref.no. K111**



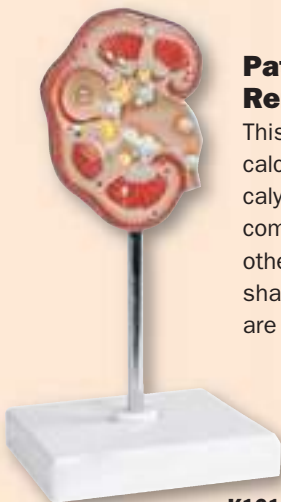
**K110**

### Nephron Diseases

This 300x life size model consists of 2 renal corpuscle sections: the first one shows the anatomy of the healthy glomerulus, the second one describes the most important glomerular pathologies due to hypertension: afferent arteriole arteriosclerosis, changes of vascular calibre, endothelial cell and the consequent increase of plasma proteins in the urine. All the particulars are shown in high detail. Mounted on board.

**Size: 20 x 15 x 5.5 cm, Weight: 0,3 kg**

**Ref.no. K110**



**K161**

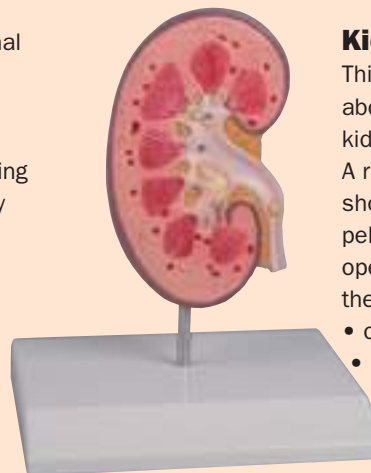
### Pathological Model of Renal Calculus

This model shows the pathology of renal calculus (kidney stones) located in the calyces of the kidney. The calculi are composed of salts or organic acids or other materials. Kidney stones of varying shapes and locations within the kidney are depicted. Mounted on stand.

**Size: 11 x 11 x 21 cm**

**Weight: 0.2 kg**

**Ref.no. K161**



**K229**

### 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:

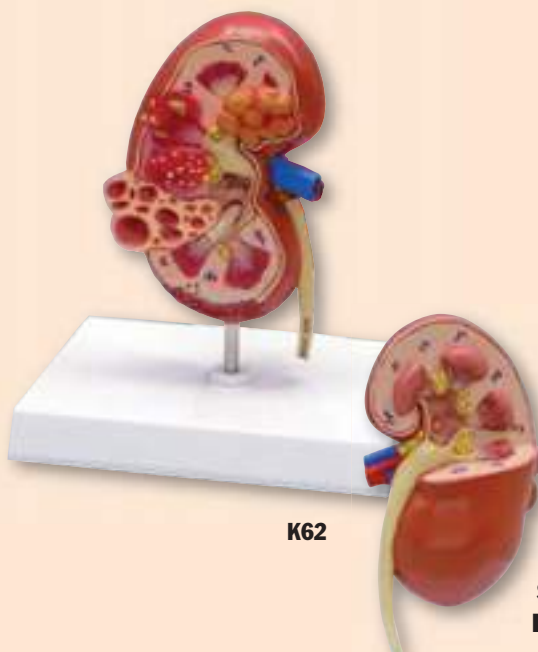
- origin of the upper calix group
- connecting tubule of the lower calyx group, resulting in congestion of the minor calices
- renal cortex

• ureter

• renal pyramids

Mounted on base

**Ref.no. K229**



**K62**

### 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**





**K122**

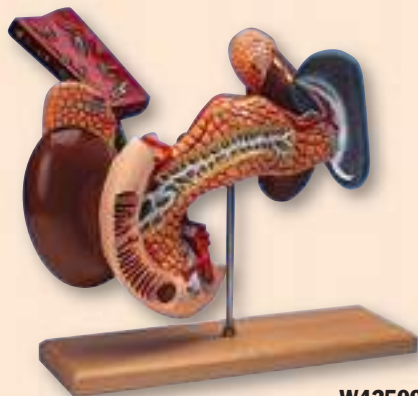
### **Pancreas, duodenum and spleen**

This life size model is an accurate representation of the pancreas, spleen 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:** 16 x 15 x 23 cm

**Weight:** approx. 0.4 kg

**Ref.no.** K122



**W42509**

### **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



**K127**

### **Liver, Pancreas and Duodenum**

This life size model, 2-part model, shows the liver with gallbladder, pancreas and partly dissected duodenum. It includes inferior vena cava, abdominal aorta and pancreatic ducts. Mounted on stand.

**Size:** 12 x 12 x 31 cm

**Weight:** 0.7 kg

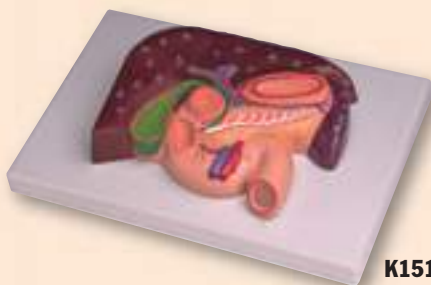
**Ref.no.** K127



### **Diseases of Pancreas, Spleen, Gall bladder**

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

**Ref.no.** K295



**K151**

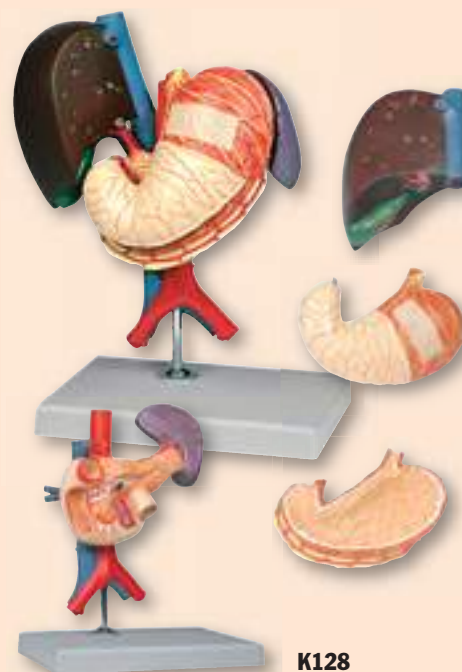
### **Liver with gall bladder, pancreas and duodenum**

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:** 30 x 20 x 7 cm

**Weight:** approx. 0.8 kg

**Ref.no.** K151



**K128**

### **Stomach and Associated Organs of the Upper Abdomen**

This life size model has the following features, 2-part stomach along with the pancreas, spleen and duodenum (shown in open section), gallbladder with bile ducts, abdominal aorta, vena cava, mesenteric and iliac vessels. 2 sections of the liver-gallbladder are interchangeable. Mounted on stand.

**Size:** 20 x 16 x 31 cm, **Weight:** 1 kg

**Ref.no.** K128



**K123**

### **Gallbladder, Pancreas and Duodenum, Diseases**

This life size model is a representation of the most important diseases of the gallbladder, pancreas and duodenum. The gallbladder, partially opened, shows the stones located in various locations, cholecystitis, polyposis and carcinoma. Diseases of the pancreas include pancreatitis in the pancreas tail and cancer in the pancreas head. Also included is a section of the duodenum with a duodenal ulcer. Mounted on stand.

**Size:** 11 x 11 x 24 cm

**Weight:** 0.4 kg

**Ref.no.** K123



**K226**

### 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**



**K225**

### 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**



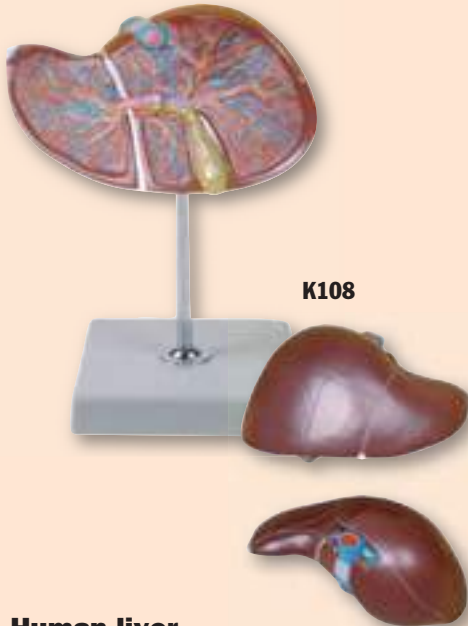
**K70**

### 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**



**K108**

### Human liver, 1.5 times life size

Enlarged 1.5 times, this model shows a liver that is dissected to expose the internal distribution of arteries and veins, the portal vein and the bile duct. Mounted on stand.

**Size: 15 x 26 x 12 cm**

**Weight: approx. 1 kg**

**Ref.no. K108**



**K126**

### Pathological Model of the Liver

This 1/3 life size model is divided into 2 parts, the following diseases are represented with great detail and realism:

- Viral hepatitis
- Liver abscess
- Fatty liver
- Cirrhosis
- Liver cancer
- Gallstones

All the pathologies are showed separately in the model with a realistic representation of their morphology. Mounted on stand.

**Size: 11 x 11 x 16 cm, Weight: 0.2 kg**

**Ref.no. K126**



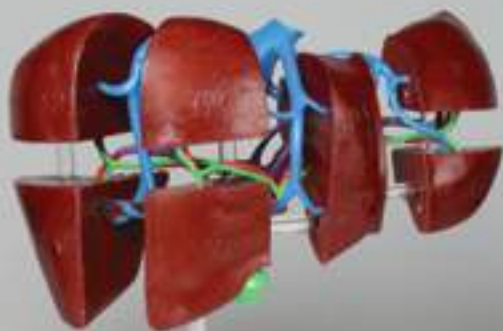
**K75**

### 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**



## 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**

K79



K19

## 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**



K218

## 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**



K118

## Pathological Model of the Esophagus

This model, 5X life size, shows the esophagus in longitudinal section, exposing common pathologies including ulcer (2 types), erosion caused by acid reflux, diverticula, varicosities and esophageal cancer. Mounted on stand.

**Size: 11 x 11 x 17 cm**

**Weight: 0.3 kg**

**Ref.no. K118**





**K121**

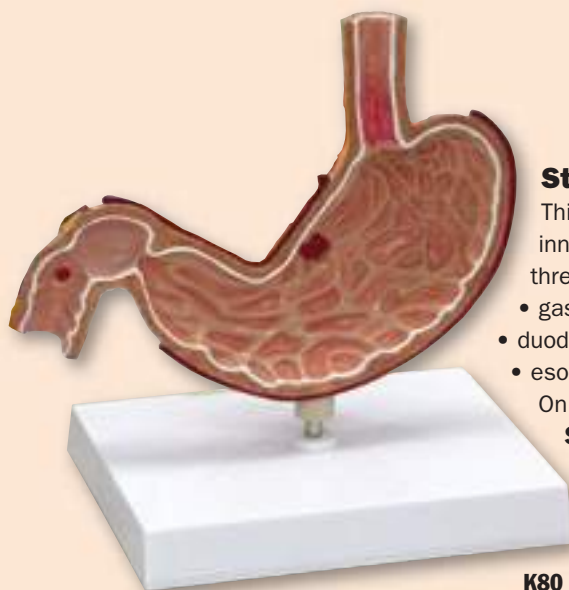
### Human digestive system, 3 parts

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 the pancreas is dissected to expose internal features. The stomach is open along the frontal plane; the duodenum, cecum, part of the small intestine and the rectum are open to expose the interior. The transverse colon is removable. An additional relief model of the head shows the anatomy of the mouth with salivary glands. Mounted on board.

**Size: 90 x 30 x 13 cm**

**Weight: approx. 1.9 kg**

**Ref.no. K121**



### 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**

**K80**



**K115**



### 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 mucosa, the pylorus, and a section of the gastric wall. The model also shows the superficial muscular layers and the blood vessels. Mounted on stand.

**Size: 11 x 15 x 6 cm**

**Weight: approx. 0.5 kg**

**Ref.no. K115**



**K150**

### Stomach, 1.5 times life size, 2 parts

This model is dissected along the medial plane and can be opened to show the internal structure of the stomach, including the mucosa, the pylorus, and a section of the gastric wall. Superficial dissections expose the longitudinal, circular and oblique muscle layers, with nerves and vascular structures. Mounted on stand.

**Size: 10 x 14.5 x 5 cm**

**Weight: approx. 0.4 kg**

**Ref.no. K150**



**K82**

### 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: 500 g**

**Ref.no. K82**



**K180**

### Stomach wall

This one-piece model, 150X life size, is an important tool to study the histology of the most important organ of the digestive system: the stomach. All the different layers from the epithelium to the serous coat are represented with great accuracy and detail. The principal structures, including different cellular types, capillary and lymphatic vessels are numbered and identified on the accompanying key card. Mounted on base.

**Size: 30 x 20 x 38 cm, Weight: 2 kg**

**Ref.no. K180**



**K217**



**K160**

### Gastric Diseases

This 1-piece life size model describes the most common pathologies of the stomach including ulcerated gastric cancer, pyloric stenosis, gastric ulcer, chronic atrophic gastritis, hiatal hernia, bleeding gastritis and carcinoma: all the pathologies are represented in high detail.

Mounted on stand.

**Size: 20 x 15 x 19 cm**

**Weight: 0,4kg**

**Ref.no. K160**

### 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

**Ref.no. K217**

### Stomach Cancer model

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

**Size: 19.7 x 3,5 x 16 cm**

**Ref.no. K83**



**K83**



K285

### 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



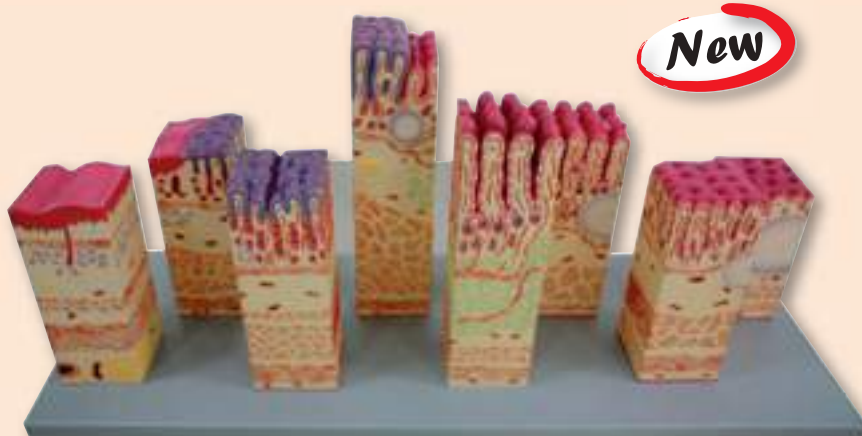
K87

### 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, epiploic appendices. Diseases represented are: polyps, cancer, diverticulitis, colitis. The model does not disassemble, segments rotate on one axis.

Diameter appr. 3.5 cm, length: appr. 10 cm, weight: appr. 0.12 kg

Ref.no. K87



K88

**New**

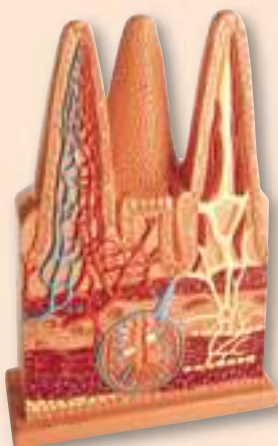
### Comparative Structure of digestive Duct Wall

This 8-part model shows the microanatomy of digestive tract, which extends from the esophagus through the stomach and the small and large intestines. All the anatomy structures are showed in high detail, mucous tissues, vessels, and glands that secrete various digestive juices in the stomach and intestine. Mounted on board.

Size: 40 x 26 x 35 cm

Weight: approx 3 kg

Ref.no. K88



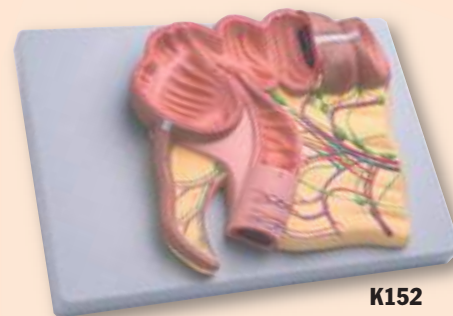
W42507

### 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



K152

### Caecum and appendix

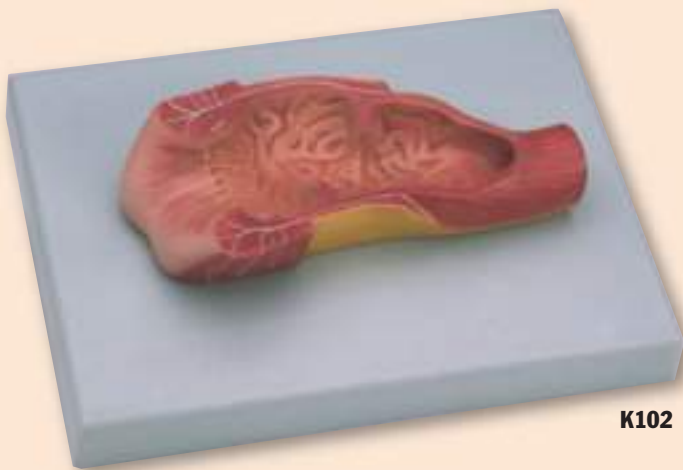
This model is 2X life size; shows the open caecum with appendix, ileum, ileocaecal orifice and valve. Blood vessels and lymph nodes are also represented. Mounted on board.

Size: 33 x 23 x 7.5 cm

Weight: approx. 1 kg

Ref.no. K152





**K102**

### Human anus model

This life size model shows a frontal section of the human anus. Structures of the rectum, including the internal and external sphincter muscles, mucous membrane, ampullae and anal valves are readily visible. Mounted on board.

**Size: 20 x 10 x 6 cm**

**Weight: approx. 0.2 kg**

**Ref.no. K102**



**K227**

### 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**



**K114**

### Pathological Model of the Rectum

This 1-piece model, approximately 5X life size, shows various pathologies of the rectum and anus. Common anorectal conditions, including hemorrhoids, anal fistulae and fissures and 2 types of abscesses are shown in great detail. The model also illustrates ulcerative colitis, polyps and rectal carcinoma. Mounted on stand.

**Size: 11 x 11 x 21 cm**

**Weight: 0.3 kg**

**Ref.no. K114**



**K90**

### 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 Acuminatum
- Fissure
- Condyloma Latum

**Size: 15.5 x 6.5 x 18 cm**

**Ref.no. K90**



G38

### 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

### Effects of Diabetes, 5 parts

This model shows the effects of diabetes on eye, heart, kidney and foot. The organs can be rotated for detailed examination. Mounted on stand.

**Size:** 16.5 x 12 x 36 cm

**Weight:** 0,4 kg

**Ref.no.** G138



G138

**You will find more Diabetes - Models on the pages 147/148**



7070

### 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

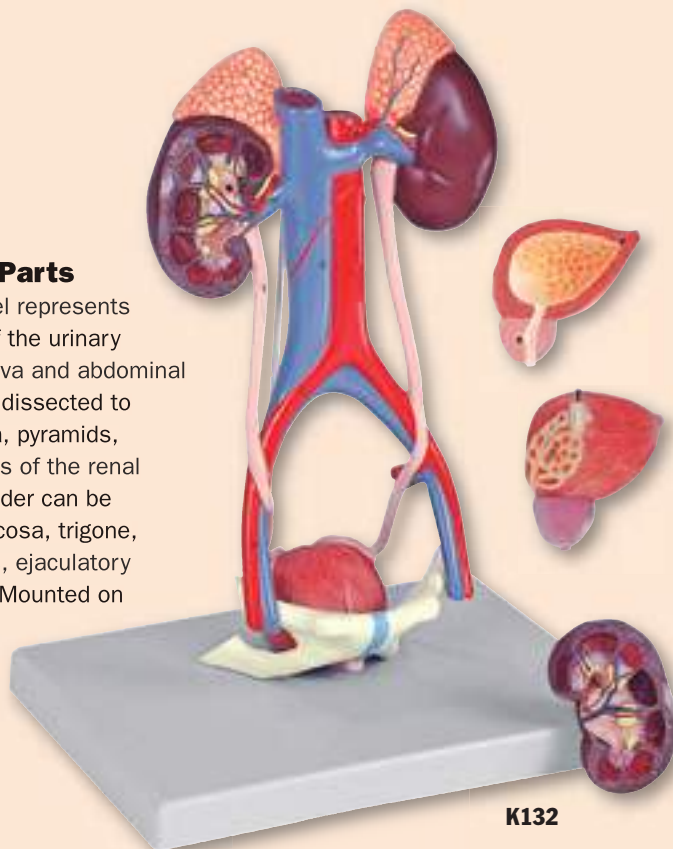
### Urinary System, 5 Parts

This life size 5-part model represents the major components of the urinary system, plus the vena cava and abdominal aorta; the right kidney is dissected to show the cortex, medulla, pyramids, calyces, pelvis and origins of the renal artery and vein. The bladder can be opened to reveal the mucosa, trigone, urethra, seminal vesicles, ejaculatory ducts and vas deferens. Mounted on base.

**Size:** 24,5 x 18 x 36 cm

**Weight:** 0.7 kg

**Ref.no.** K132



K132



K135

### Median section of male and female urinary tracts

This model features sections of both male and female pelvises, including the urinary bladder; urethra; the inferior vena cava with tributaries; the abdominal aorta with branches; ureters; the kidneys with adrenal glands; and a section showing internal renal structures (cortex, medulla, pyramids with papillae, and vessels). Mounted on board.

**Size:** 53 x 38 x 5 cm

**Weight:** approx. 1.6 kg

**Ref.no.** K135



K141

### Male urinary bladder with prostate, 2 parts

This model, enlarged 3 times, shows the male urinary bladder with the prostate gland surrounding the urethra. The model is dissected medially to expose both internal and external structures of the bladder and prostate, including the ureteric and urethral orifices; ductus deferens; seminal gland; and ejaculatory duct. Mounted on stand.

**Size:** 27 x 20 x 15 cm

**Weight:** approx. 1.2 kg

**Ref.no.** K141



K143

### Diseases of bladder and prostate

This life-size model, sectioned along the frontal plane, shows, in the appropriate location, five different pathologies of the male urinary bladder and prostate: Bladder stones, Cystitis, Diverticulum, Benign prostatic hypertrophy (BPH), Bladder tumour at three different stages. Mounted on stand.

**Size:** 11 x 11 x 16 cm

**Weight:** 150 g

**Ref.no.** K143



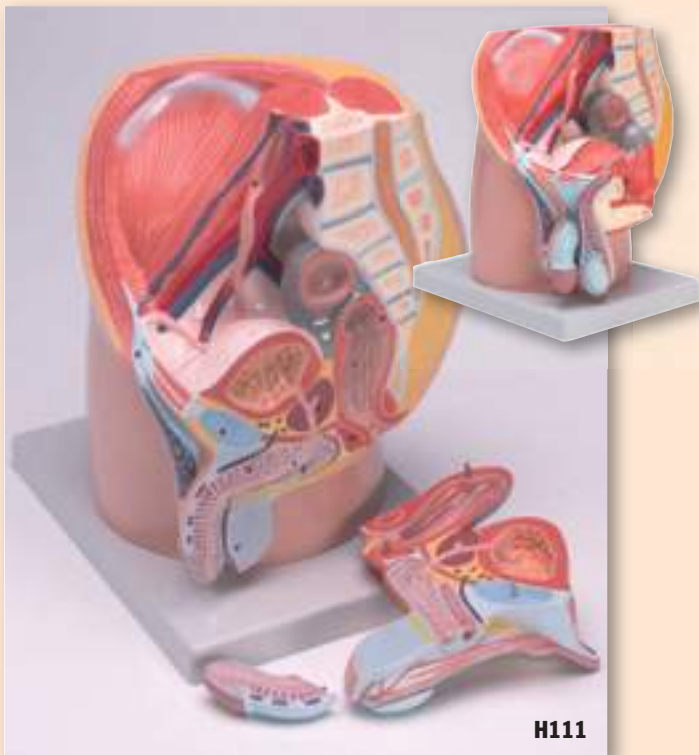
K245

### 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.

**Ref.no.** K245





**H111**

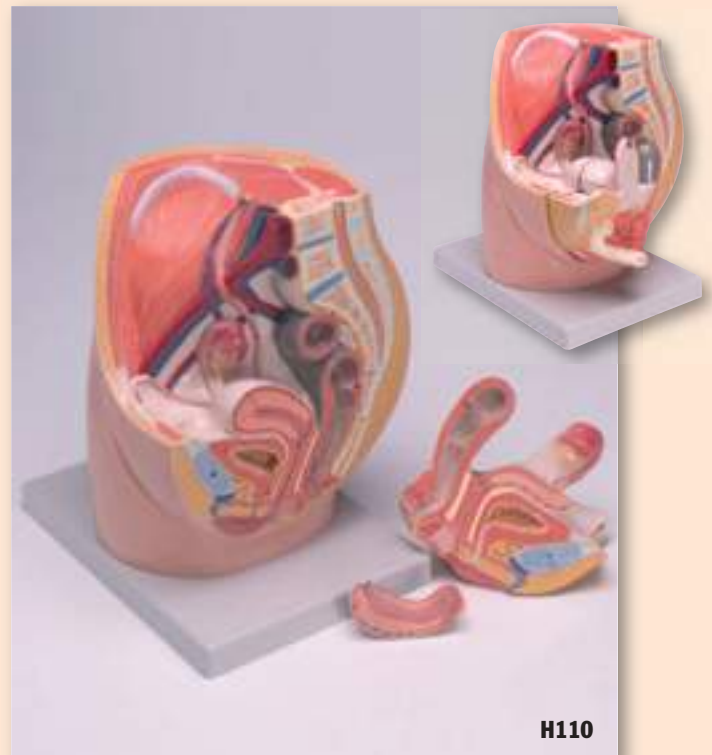
### **Male Pelvis, 3 parts**

This life size model, composed of 3 parts, presents an open view through a median sagittal section of the pelvis. Internal structures of the male urogenital system are represented in fine detail. The removable parts include a half penis divided into medial and transverse sections and half of the male reproductive system with an open dissection of a testis showing details of the internal structure. Mounted on base.

**Size: 25 x 18 x 27cm**

**Weight: approx. 1.5 kg**

**Ref.no. H111**



**H110**

### **Female Pelvis, 3 parts**

Female pelvis, 3 parts. This life size model, composed of 3 parts, shows an open dissection through the median sagittal section of the pelvis. Internal structures of the female urogenital system are portrayed in great detail. Removable parts include half of the female reproductive system with the uterus opened to reveal medial and transverse sectional views. Mounted on base.

**Size: 25 x 18 x 27 cm**

**Weight: approx. 1.3 kg**

**Ref.no. H110**



**L150**

### **Male genital organs, 4 part**

This life size model, composed of 4 parts, is dissected through the median sagittal plane to provide excellent views of external and internal structures. The removable parts include two halves of the penis, showing medial and transverse cuts, 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. L150**



**L151**

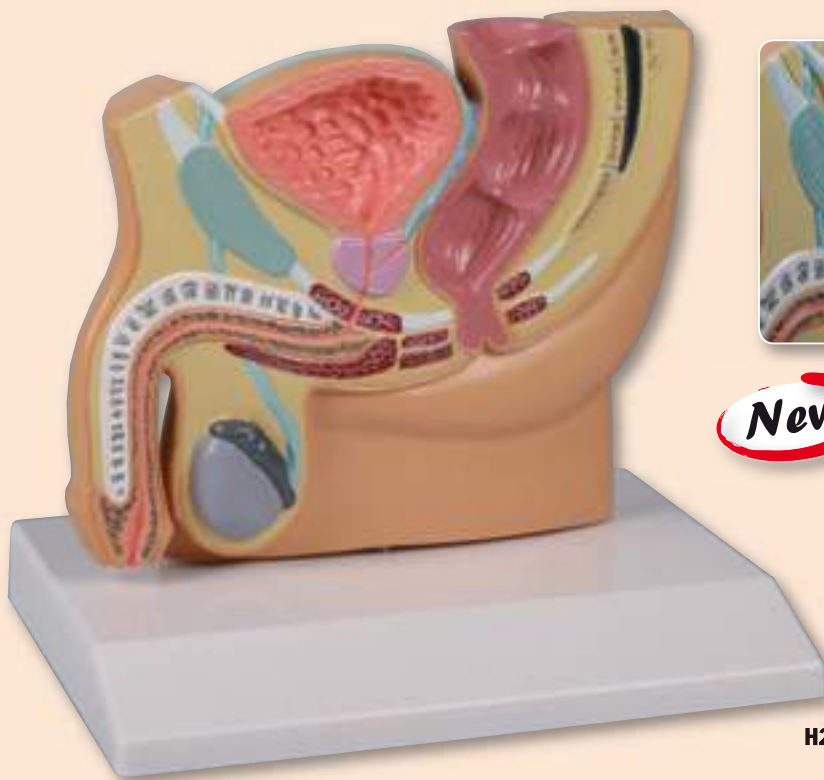
### **Female genital organs, 4 part**

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. L151**



*Bony pelvises and pelvic floor muscles can be found on pages 12/13*

**New**



### 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**

### Male pelvis section, miniature version

Scaled down replica of model **H111** in about half life size. The model shows a male pelvis in median and transversal section. On Base.

**Size: 16.5 x 13 x 15 cm**

**Weight: 0.4 kg**

**Ref.no. MH111**



**L113**

### Male reproductive system

This model shows, in natural size, all the organs of the male reproductive system. Penis, prostate and urinary bladder are longitudinally sectioned to reveal their inner anatomy; the testicle is partially cut away to expose all the internal structures. The model also includes a detailed cross-section, greatly enlarged, of the testicle: septula testis, rete testis, straight and contorted seminiferous tubules are shown with great accuracy. Mounted on board.

**Size: 40 x 26 x 10 cm**

**Weight: 0,5 kg**

**Ref.no. L113**



**L110**

### Pathological Model of the Male Urogenital System

This life size 2-part model shows the internal structure of the urogenital male system with specific pathologies, including bladder-stones, diverticulum, cancer of the urinary bladder and sexually transmitted diseases such as condyloma acuminatum and gonorrhoea. The model also shows the rectum and anus with mixed haemorrhoids and carcinomas. Mounted on stand.

**Size: 16 x 12 x 23 cm**

**Weight: 0.4 kg**

**Ref.no. L110**



**L102**

### Testis, 3.5 times life size

This model shows the medial and sagittal section of the human testis including epididymis, ductus deferens, seminiferous tubules and the rete testis. Mounted on stand.

**Size: 11 x 11 x 26 cm**

**Weight: 0.3 kg**

**Ref.no. L102**



1261

### 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



H23

### 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



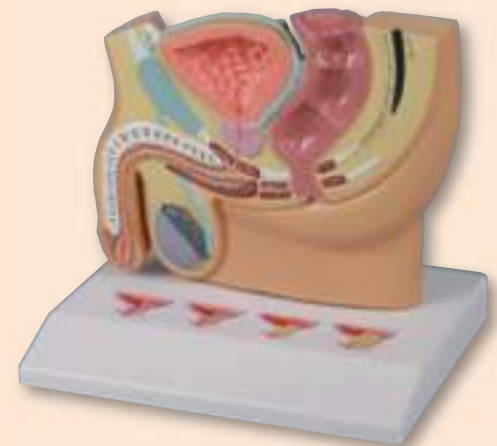
K142

### Normal and Diseased Prostate Gland

This is an excellent educational tool for studying common prostate pathologies. The model consists of three prostate sections, including the rectum and urinary bladder. The first model shows the internal and external structures of a normal prostate. The second one illustrates benign prostatic hyperplasia, characterized by variable fibromuscular and epithelial predominance. The third model illustrates prostatic adenocarcinoma. The three models are mounted on stand.

**Size:** 33 x 23 x 14 cm, **Weight:** 0.6 kg

**Ref.no.** K142



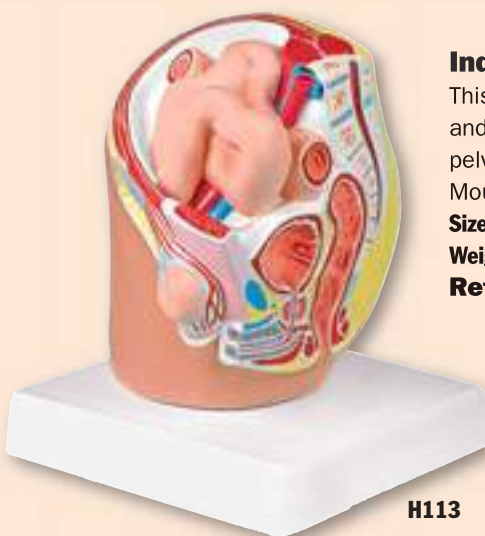
### Male Pelvis section with PBH

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



H113

### Indirect Inguinal Hernia

This 1/2 life size model shows the medial and sagittal section of the male human pelvis with an indirect inguinal hernia.

Mounted on base.

**Size:** 11.5 x 11.5 x 16 cm

**Weight:** 0.3 kg

**Ref.no.** H113

### External male reproductive organ

This life size model shows the external structure of the male penis. Mounted on base.

**Size:** 15 x 20 x 10 cm

**Weight:** approx. 0.3 kg

**Ref.no.** L107



L107





H220



MH110

### Female pelvis section, miniature version

Scaled down replica of model H110 in about half life size. The model shows a female pelvis in median and transversal section. On Base.

**Size: 16.5 x 13 x 15 cm**

**Weight: 0.4 kg**

**Ref.no. MH110**

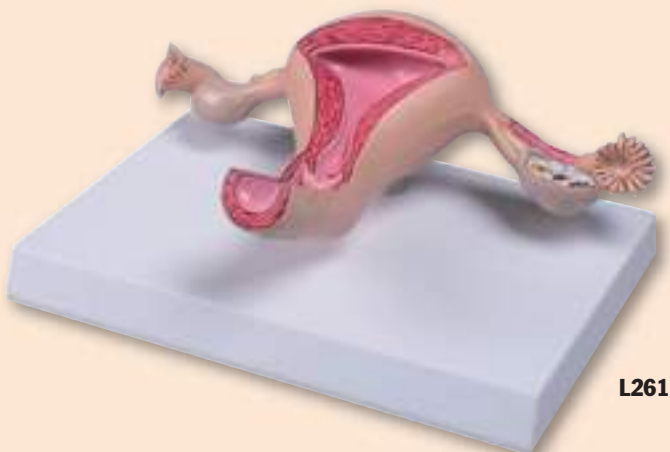


### Female pelvis section, reduced size

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

**Ref.no. H220**

*Bony pelvises and pelvic floor muscles can be found on pages 12/13*



L261

### 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. On removable stand.

**Size: 23 x 16 x 6 cm**

**Weight: 460 g**

**Ref.no. L261**



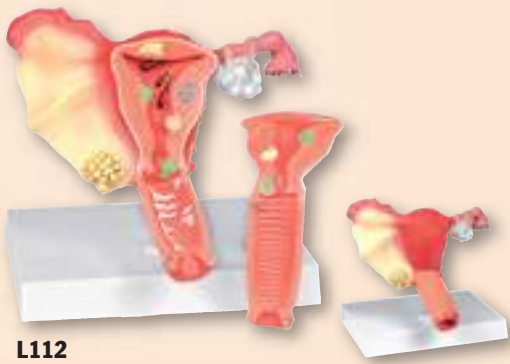
L103

### Ovary structure

This 2part, 5times life size model shows the anatomy of the human fallopian tube and ovary. The follicles are shown at different stages of maturation, from the primary follicle to the corpus albicans. A primary follicle is cross-sectioned, to illustrate the inner structure. The oocyte, zona pellucida and granulosa cells.

**Size: 33 x 22.5 x 21 cm, Weight: 1,4 kg**

**Ref.no. L103**



L112

### Pathological Model of the Female Reproductive System

This life size model, sectioned along the front plane and divided into 2 pieces, shows the most important pathologies of the female reproductive system. Four types of fibroid tumors (intramural, subserous, submucous and broad ligament myoma) are shown in the appropriate locations. Also shown are endometrial carcinoma and carcinoma of the cervix. Additional pathologies include polyps of the uterus, salpingitis, oophorocystosis, endometriosis and candidal vaginitis. Mounted on stand.

**Size 16.5 x 12 x 23 cm, Weight: 0.3 kg**

**Ref.no. L112**

### 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: 460 g**

**Ref.no. L262**



L262

### Periodic changes of female hormones and internal layer of uterus

This model shows the relationship between female hormone levels and changes in the uterine lining throughout the menstrual cycle. Mounted on board.

**Size: 53 x 38 x 5 cm, Weight: approx. ca. 1.7 kg**

**Ref.no. L106**



L106

### Organs of the endocrine system

This model shows the external structure of the following human endocrine organs: pituitary gland; thyroid gland; adrenal gland; testis; pancreas; parathyroid gland; and ovary. Mounted on board.

**Size: 53 x 38 x 7 cm**

**Weight: approx. 1.3 kg**

**Ref.no. K155**



K155



### Chromosome model

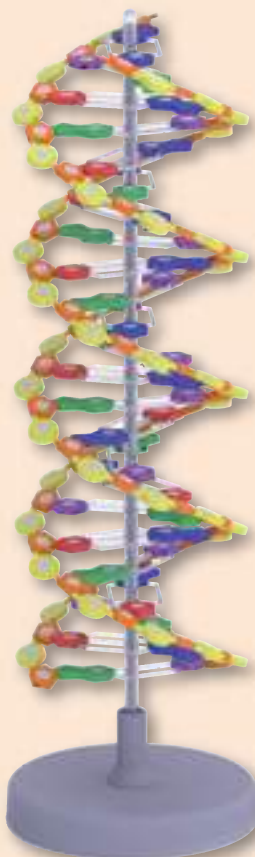
This single-piece model, 10000times enlarged, shows the structure of a human chromosome. All the main parts - centromere, telomere and loops are extremely accurately reproduced.

**Size: 15 x 15 x 42 cm**

**Weight: 0.9 kg**

**Ref.no. L119**

**L119**



### Double Helix DNA - 24 BP Model (2 turns)

This self assembly kit contains all the blocks needed (stand included) to build a 24 base pairs right handed double helix DNA (B-DNA).

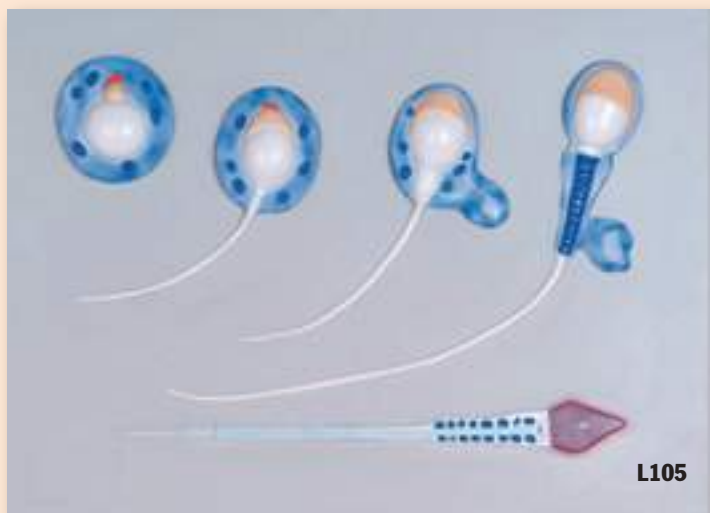
Parts are colour coded and have characteristic shapes, with deoxyribose being pentagonal, phosphates cylindrical and nitrogenous bases showing their peculiar pyrimidine or purine structure. Two different central connecting parts depict the 2 and 3 H-bond between Thymine/Adenine and Cytosine/Guanine.

The assembled model is important in demonstrating the most peculiar features of double stranded DNA structure and topology.

**Size: 30 x 22 x 10 cm**

**Ref.no. L118**

**L118**



**L105**

### Spermatogenesis

This model shows the process of spermatogenesis from spermatid to the mature spermatozoon. Enlarged about 10000 times. Mounted on board.

**Size: 53 x 38 x 5 cm, Weight: approx. 1.2 kg**

**Ref.no. L105**



### Human Embryo, 4 Weeks

This model, 50X life size, shows structural details of a human embryo at 4 weeks of development.

**Size: 27 x 19 x 14 cm**

**Weight: 0.8 kg**

**Ref.no. L115**



**L114**

### Embryonic Development series

This set of 16 hand-painted models and 1 chart graphically illustrate the growth of the human embryo during the first trimester of prenatal life. Mounted on smoked Lucite stand. Supplied with illustrated booklet.

**Size: 66 x 53 cm**

**Ref.no.: L114**





### Fetal development

This model shows the process of fetal development from the unfertilized ovum to the 9th month of gestation. The model consists of 5 parts, mounted on a board that corresponds to the following developmental stages: ovulation; fertilization; zygote formation; and uterine implantation. The fetus is also shown at 2 weeks, 8 weeks, 12 weeks and 9 months of development. Mounted on board.

**Size:** 53 x 38 x 5 cm

**Weight:** approx. 2 kg

**Ref.no.** L101

**L101**



### Pregnancy Model Set

This set, composed of 9 life-size models, illustrates human foetal development from the 4th week to the 6th month. All the main anatomical structures of the uterus and foetus are well represented and identified on the accompanying key card. Two models of the set show the different positions of twins. Each model is mounted on a stand.

**Size:** from 13 x 10 x 13 cm up to 24 x 19 x 25 cm

**Weight:** from 230 g up to 1.3 kg

**Ref.no.** L104

**L104**



**L120**

### Pregnancy Pelvis with Mature Fetus, 2 Parts

This life size model depicts the female human pelvis in median section with a fetus in the 40th week of pregnancy. The fetus is in the normal position prior to birth, showing the anatomical relationship between various structures of the maternal pelvis and the fetus. The Fetus is detachable for closer examination.

Mounted on base.

**Size:** 40 x 26 x 37 cm

**Weight:** 3.8 kg

**Ref.no.** L120



**L109**

### Female pelvis with 8-week embryo, 3 part

This life size model is composed of 3 parts and gives an internal view through the median sagittal section of the pelvis. It shows the internal organs of the female urinary and reproductive systems with an 8-week embryo in utero. Mounted on base.

**Size:** 25 x 18 x 27 cm

**Weight:** approx. 1.5 kg

**Ref.no.** L109



### 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**

### Fetus doll with placenta

**Ref.no. 4071/1**

### Fetus doll without Placenta

**Ref.no. 4071/2**



### Miniature birth demonstration set

In carrying bag.

**Ref.no. 4072**



### 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**

### 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 draw-string closes the sac. Both amniotic and chorionic membranes are detailed accurately in two colors. Fits to model **R10070**.

**Ref.no. R10071**



### Cloth Pelvis

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

**Ref.no. R10072**

**!** Female bony pelvises and pelvic floor models can be found on pages 12/13



### 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**



**R10128**

### 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**



**R10127**

### 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**



**L46**

**L45**



### 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. Penis length 13,5 cm.

**white skin colour Ref.no. L45**

**dark skin colour Ref.no. L46**

### 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**



**7085**



**L75**

### 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**





LM43

### 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 skin consists of a special synthetic material, which conveys an entirely natural feel. 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. LM43**



**Examination with Leopold gestures  
(here: second gesture)**



**Interior  
structure**



L90

### 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**

### Episiotomy & Perineal Laceration Trainer

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

**Ref.no. R10910**

### Replacement soft tissue insert

**Ref.no. R10910A**

### Replacement soft tissue insert, set of 3

**Ref.no. R10910B**



R10910





LM65

### 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**

### 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.). 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**



LM24



LM45

### 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**



LM63B

### Birth simulator

Lower torso with vulva and foetus doll. The highly flexible vulva make it possible to learn protection of the perineum. 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.

**Ref.no. LM63B**



LM66



### Extractor

Upgrade for **LM63A** and **LM63B**. This extractor presses the foetus head through the vulva. It was designed to support the teacher during long lessons.

**Ref.no. LM66**



LM631



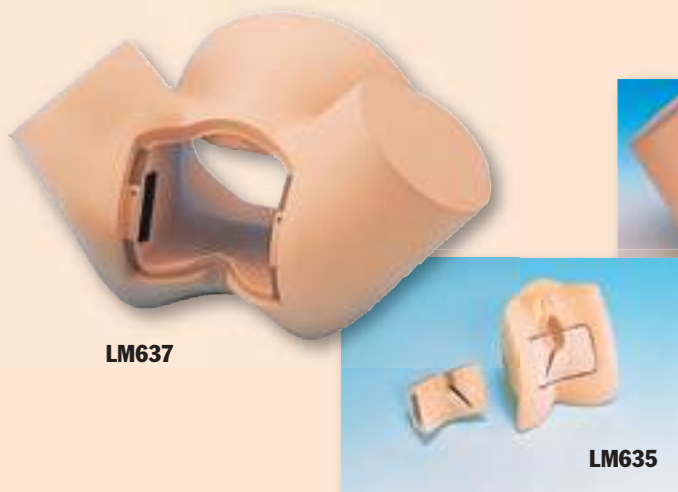
### Stages-of-Birth Module

Model for upgrading **LM63B**. 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.

**Ref.no. LM631**

### Matching lower torso

**Ref.no. LM637**



LM637

LM635



### Episiotomy Suture Simulator

Model for upgrading **LM63B**. 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**

### Matching lower torso

**Ref.no. LM637**



## 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 second component of the model comprises a complete birth simulator that permits realistic simulation of birth. The highly flexible vulva makes it possible to learn protection of the perineum. 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 third module contains a simulator for practicing episiotomy sutures. The two included inserts can be sewed again and again.

**Ref.no. LM63A**



**LM63A**

## 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 a 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**



**R10181**



**R10180**

## 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 fontanels and cranial sutures. A soft carry bag is included.

**Size: 53 x 33 x 43 cm**

**Weight: 9 kg**

**Ref.no. R10180**





## 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. LM64**

**The supplied modules are:**

### 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.



### 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 fontanelles are palpable. All inserts can be rotated and modified.





## 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 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. Birth can be demonstrated in breech position realistically.



## 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.



## 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.







## Noelle Maternal and Neonatal Birthing Simulator 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**

**Available options:**

### Perinatal Monitor CD-ROM

contains teaching basics and all nine NOELLE scenarios

**Ref.no. R17800A**

### 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**

## Noelle Maternal and Neonatal Birthing Simulator

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

### Simulator features include

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

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

**Weight: 48 kg**

**Ref.no. R17810**



**New**

## 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**



**New**

**Available options:**

### Perinatal Monitor CD-ROM

contains teaching basics and all nine NOELLE scenarios

**Ref.no. R17800A**

### 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**



LM55

### 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**



LM80

### External Cephalic Version Model

This model represents a pregnant Woman (Japanese) in the 36. 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**



### Cervical Examination Simulator

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

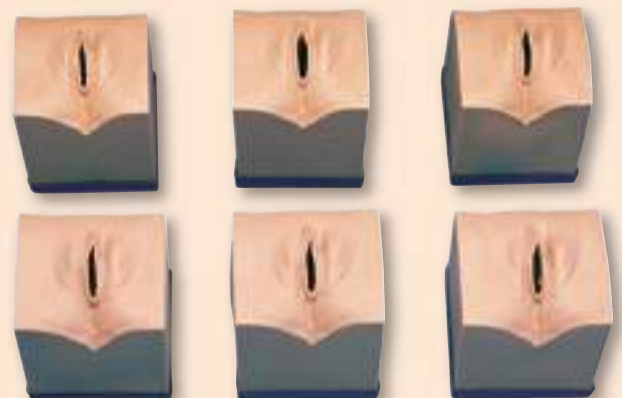
- Stage 1 - no dilatation, no effacement.
- Stage 2 - 2cm dilatation, 50% effacement
- Stage 3 - 2cm dilatation, full effacement
- Stage 4 - 5cm dilatation, full effacement
- Stage 5 - 7cm dilatation, full effacement
- Stage 6 - 9cm dilatation, full effacement

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**



R10920





## Gynecological 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.

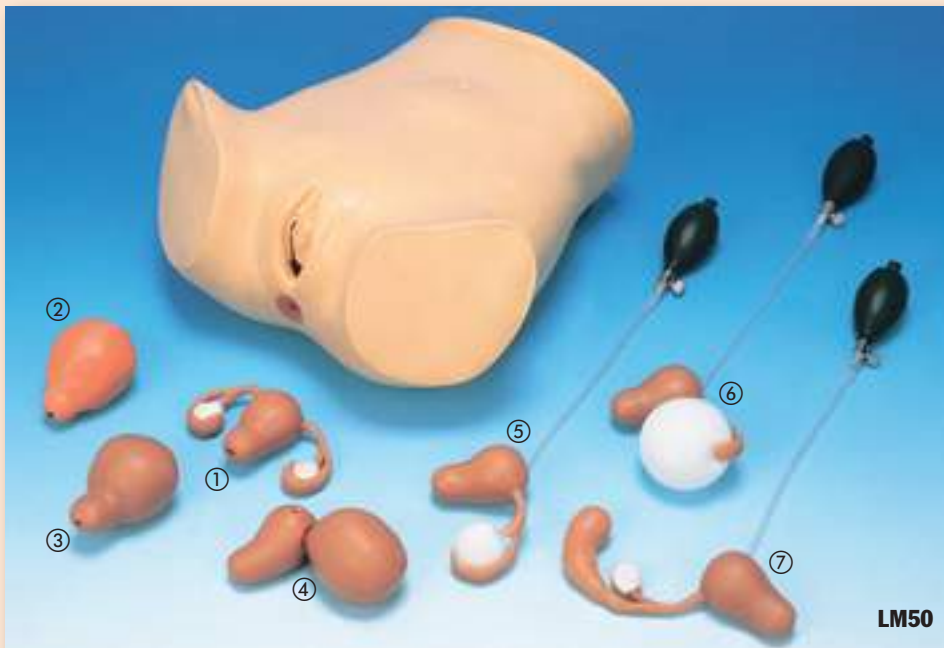
**Size: 33 x 33 x 30 cm**

**Weight: 3 kg**

**Ref.No. R10182**



**R10182**



## 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 (vaginocopy) 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





## 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:

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

**Ref.no. R10183/1**

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

**Ref.no. R10183/2**

### 48 hour postpartum uterus

with duckbill cervix and fallopian tubes for IUD insertion, using long curved forceps.

**Ref.no. R10183/3**

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

**Ref.no. R10183/5**



## 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**



## 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**



## 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:**

### Normal Pelvic Examination Simulator

**Weight: 12.3 kg**

**Ref.no. R10930/1**

### Abnormal Pelvic Examination Simulator

**Weight: 12.3 kg**

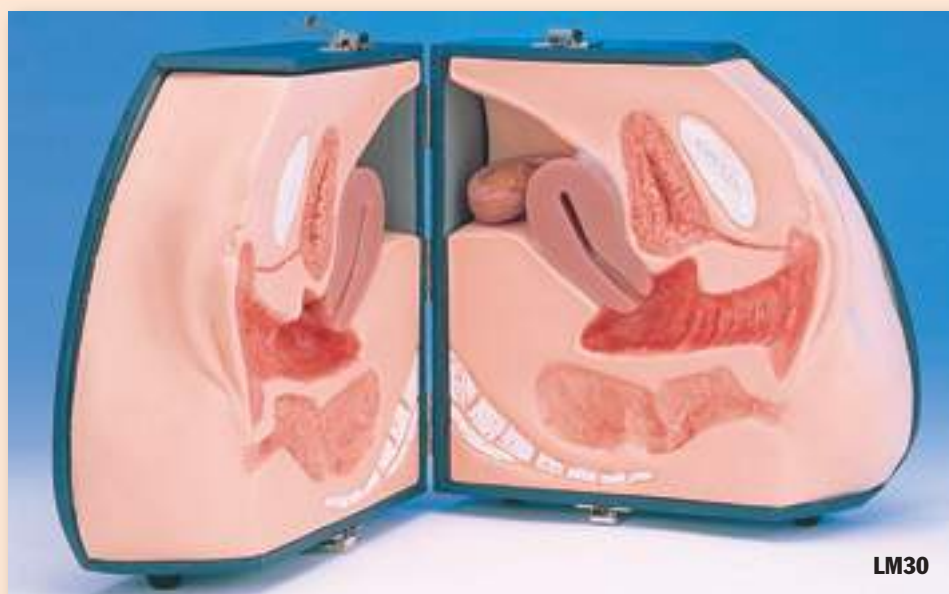
**Ref.no. R10930/2**

## 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.

**Size: 15 x 26 x 26 cm**

**Ref.no. LM30**



**LM30**



**New**



L56

### 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**



LM18

### 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



LM17

### 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.

### Geriatric Breast Model

Designed to address the special needs of teaching BSE to older women, this model simulates the natural stretching of breast tissue with age. Contains palpable and non palpable lumps. Comes with a protective slip cover, powder and carrying case.

**Ref.no. R10131**



**R10131**

### Full size Breast Model

Containing palpable and non palpable lumps, this realistic model helps a full-sized woman learn to deal with the special challenge she has doing BSE. Comes with a protective slip cover, powder and carrying case.

**Ref.no. R10069**



**R10069**

### 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: 300 g**

**Ref.no. L281**



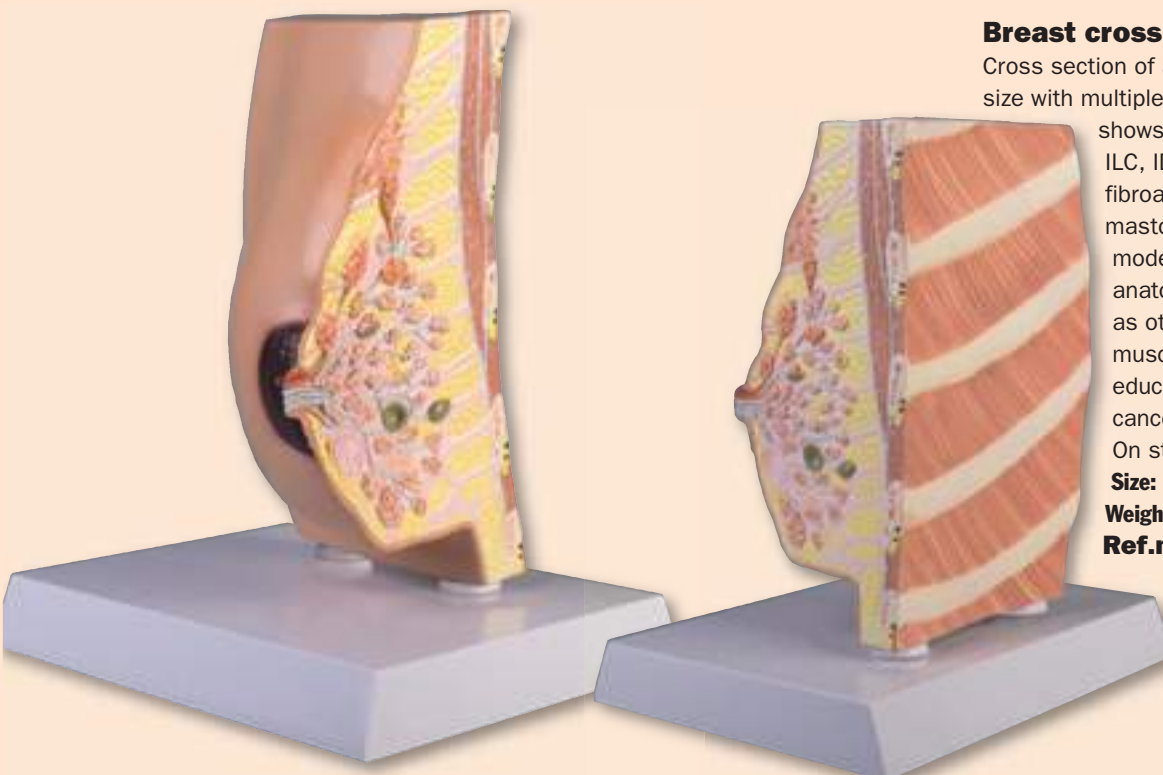
### Breast cross section

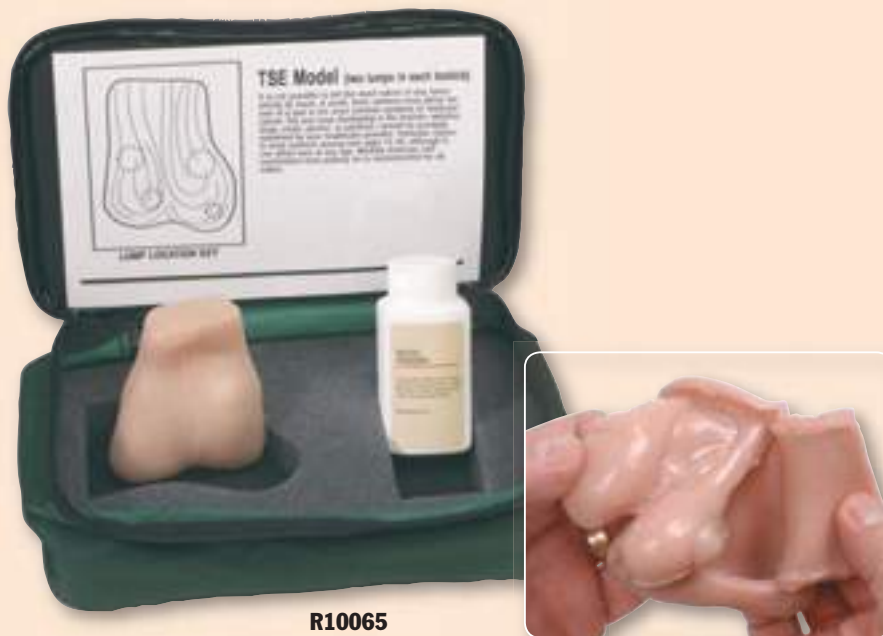
Cross section of a female breast in life size with multiple diseases. The model shows IBC, precancerosis, ILC, IDC, Paget's disease, fibroadenoma, pseudo lump, mastopathy and cysts. The model also shows normal anatomy of the breast as well as other structures like muscle layer and ribs. With educational card and breast cancer classification. On stand, removable.

**Size: 10 x 16 x 8 cm**

**Weight: 360 g**

**Ref.no. L280**





**R10065**

### 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**



**R10034**

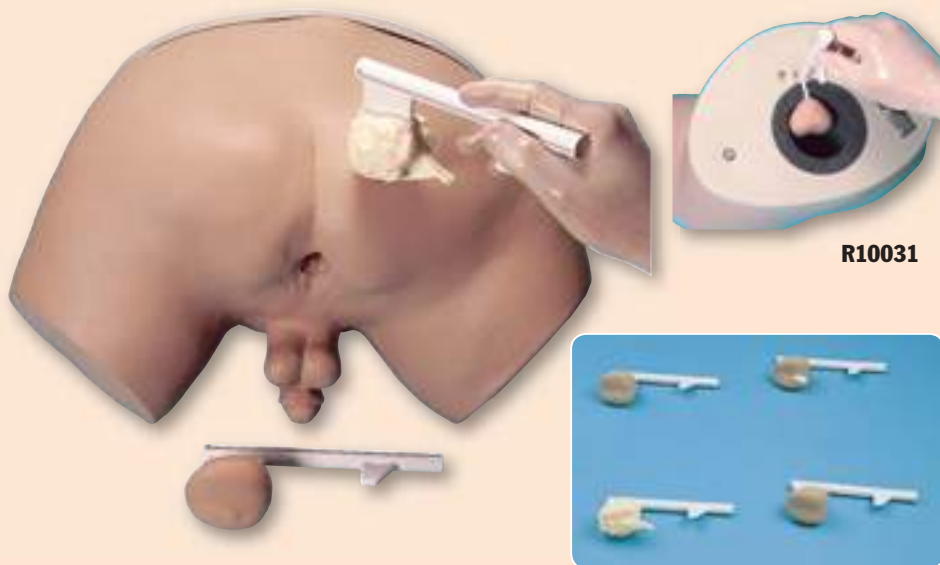
### Testicle Self Examination Model

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**



**R10031**

### 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**



**R10082**

### 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**





**R10081**

## 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**



**7065**

## Rectal examination model

Under Development, see our website for more information.

**Ref.no. 7065**



**R16240**

## 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 7cm. The model comes with lubricant and storage box.

**Ref.no. R16240**



**R16230**



## 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**

## 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.

### Model A

30 week old boy

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

**Weight: 1.6 kg**

**Ref.no. LM62A**



LM62B

### 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**

LM62A



## 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**



BA90



**BA77**

### 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. 1.5 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.

**Size: approx. 50 cm**

**Weight: 1.5 kg**

**Male version Ref.no. BA77**

**Female version Ref.no. BA78**



**BA72**



**BA73**

### 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. The anterior and posterior fontanelles are outlined and the eyes are slightly closed.

**Size: 50 cm**

**Weight: 1 kg**

**Male version Ref.no. BA72**

**Female version Ref.no. BA73**



**BA75**

### 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: 1.7 kg**

**Ref.no. BA75**



**New**

### 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**



**New**

**R10104**

### 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 Ref.no. BA85**

**Female Ref.no. BA86**





LM26M

### 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**



LM26F

### 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. LM26F**



R16210

### Bathing Babys, 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**





LM82



### 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**



**New**

### 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 faceskin
- 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**







LM52

### 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 anaesthesia.

**Size: 70 cm**

**Weight: 8 kg**

**Ref.no. LM52**



R16200



### Infant examination and care model

This lifelike model represents a 10 month infant and is made of soft, flexible material. The body is flexible, the eyes, the neck and the hips are movable. The model is suitable for otoscope and tongue depressor practice. The anterior fontanel is palpable. The model has realistic size and weight.

**Ref.no. R16200**



### One Year Pediatric Care Simulator

**This nursing manikin has the following features:**

- soft, childlike 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 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**

**Site specific heart and lung sounds**

**Intraosseous infusion system**

**External stoma sites**

**Ref.no. R17710/1**

**Ref.no. R17710/2**

**Ref.no. R17710/3**

**Ref.no. R17710/4**





**New**



### **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

#### **Available with optional VitalSim 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



**Without VitalSim**  
**With VitalSim**

**Ref.no.: R20100**  
**Ref.No. R20101**

If a VitalSim product is purchased for the first time, product training by the manufacturer is necessary. This has to be ordered with **Ref.no. R20101A.**



### Five Year Pediatric Care Simulator

The five year old is a sophisticated pediatric simulator for training in standard and advanced clinical procedures. These 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**

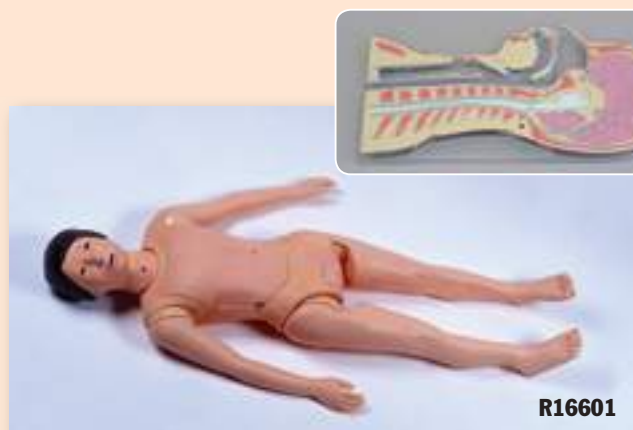
**Ref.no. R17720/2**

**Intraosseous infusion system**

**Ref.no. R17720/3**

**External stoma sites with internal tanks**

**Ref.no. R17720/4**



### 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**





### **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

Nursing Kid is shipped with Manikin, Airway Lubricant, Simulated Blood, Hospital Gown, Carry Case, and Directions for Use.

#### **Available with optional VitalSim 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

**Without VitalSim Ref.no.: R20110**

**With VitalSim Ref.No. R20111**

If a VitalSim product is purchased for the first time, product training by the manufacturer is necessary. This has to be ordered with **Ref.no. R20101A**.





## 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**

## 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:

**Basic IV Training arm**

**Ref.no. R17600A**

**Advanced IV Training arm**

with subtle venous network

**Ref.no. R17600B**

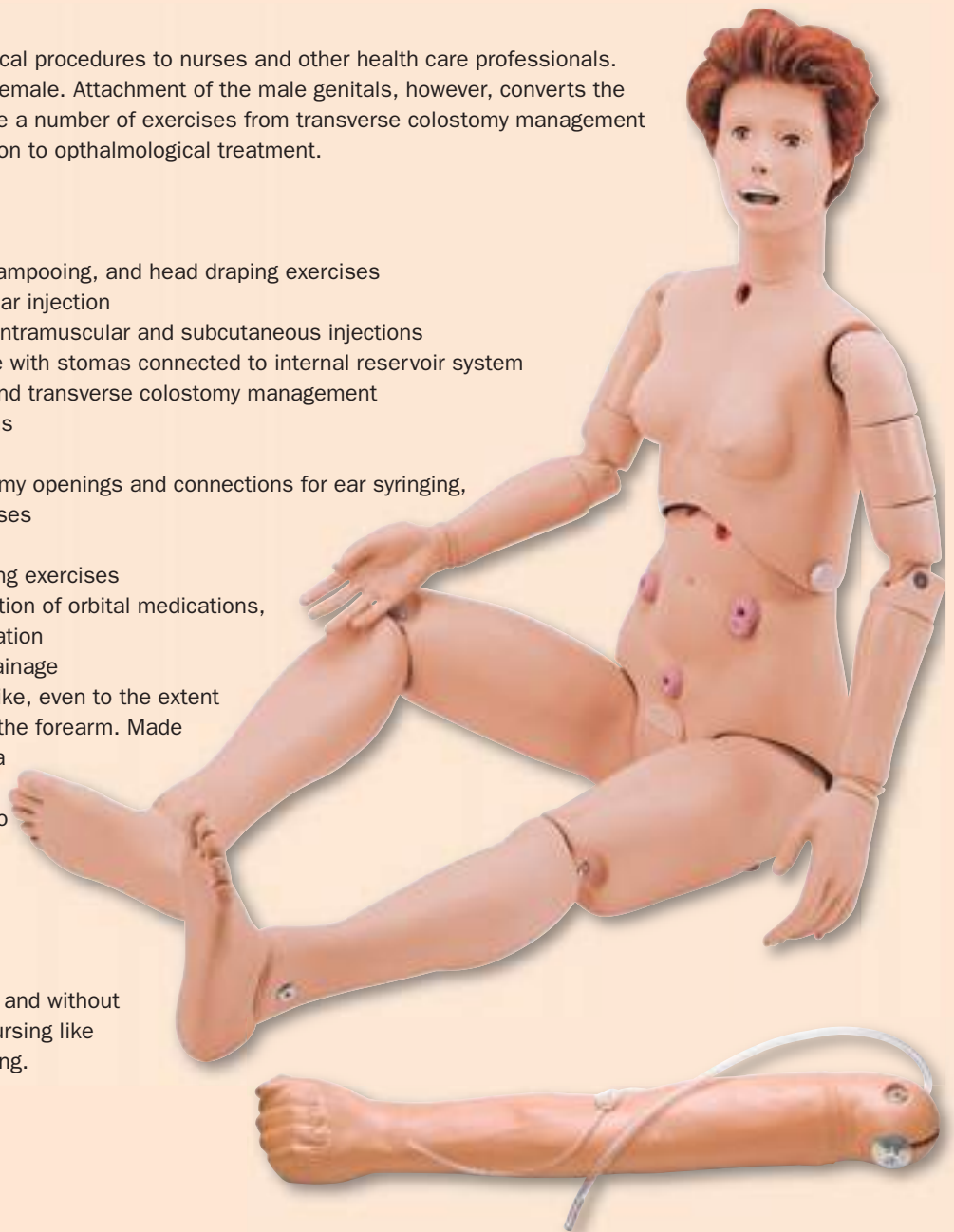
**Blood pressure Arm**

**Ref.no. R17600C**

**Amputation Stump for bandaging**

**Ref.no. R17600D**

More options available on request



## 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**

## 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**

### Available accessories:

**Arm for intravenous injection Ref.no. LF4001/1**

**Blood pressure measurement arm Ref.no. LF4001/2**

**Auscultation Upgrade Kit** (see page 157)

## KERI nursing care doll

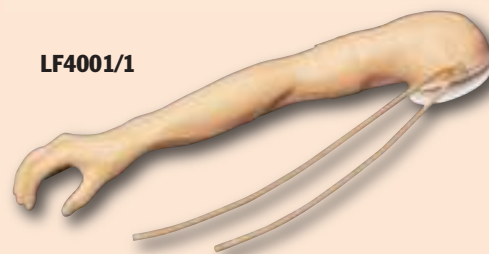
This highly realistic care doll finds its uses specifically in nursing care. This doll is characterised particularly by the very high mobility and the extremely true to life imitation of the face, hands and feet.

**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**

**LF4001/1**



**LF4001**



**LF4001/2**



## 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**

### Available accessories:

**Arm for intravenous injection**

**Ref.no. LF4001/1**

**Blood pressure measurement arm**

**Ref.no. LF4001/2**

**Auscultation Upgrade Kit**

(see page 157)

**LF4020**







## Multifunctional Nursing Doll

This advanced nursing doll gives multiple options for training. It is the perfect tool for all professional education purposes.

### The characteristics are:

- No screws or seams on the surface of legs and arms
- Bendable elbows, knees and fingers stay in the position they are bent
- Skull features frontal bone, zygomatic bone, and mandible. Bones can be palpated from outside.
- Sitting position without support
- soft and elastic colostomy stoma

### The following training possibilities are included:

- washing, positioning
- Hair washing
- Patient transport, changing of clothes
- removal of lower and upper dentures, oral care
- Gavage nasogastric and oral
- suction of mucus
- Care of artificial anus
- Bandage techniques
- Enema practice
- Female and male catheterisation
- Lavage of stomach
- Lavage of intestine
- Lavage of vagina
- Tracheal care
- Treatment after death
- intramuscular injection at upper arm, buttock and upper leg
- Thoracic cavity lavage

The model can be detached at the waist for easy transport.

**Size: 160 cm**

**Weight: 13 kg**

**Ref.no. LM79**



**LM79**







### **Nursing doll, professional version**

This extremely lifelike doll is so real you will not believe it. The doll can be used lying and sitting without support. The joints of the extremities are not visible except the hip and shoulder joints. The skin is soft and lifelike.

#### **The following training opportunities are included in the doll:**

- general positioning
- passive physical therapy
- Body hygiene, washing
- Dressing and undressing
- Mouth- and teeth hygiene
- Foot hygiene
- Care for artificial eye
- Artificial nutrition, stomach cleansing
- Intestines cleansing
- Care for artificial anus
- Care for tracheotomy
- Catheterisation female and male
- Injection subcutaneous, intravenous and intramuscular
- Care for the deceased people (eyelids can be closed, hands can be folded.)



Stomach and bladder can be filled, drained and cleaned using a special system. This makes the use of the doll fast and efficient. The model is manufactured in first class quality and very durable. This makes it especially suitable for daily use in medical schools.

**Size: 158 cm**

**Weight: 18 kg**

**Ref.no. R16600**

### **New, advanced version**

**This new version has the additional features:**

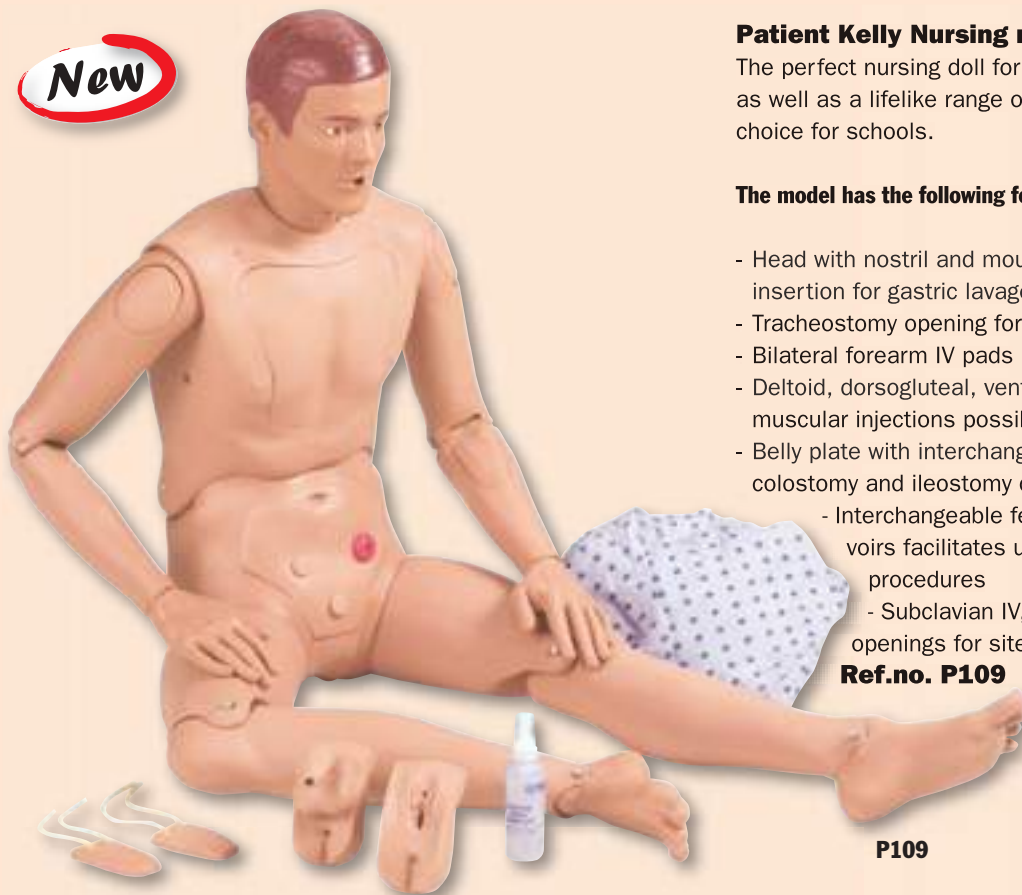
- TPN care
- IV line care (forearm and back of hand)
- Digital disimpaction
- Suppository insertion
- PEG care

**Ref.no. R16602**

**New**



**New**



**P109**

### Patient Kelly Nursing manikin

The perfect nursing doll for daily use. Strong and durable material as well as a lifelike range of motion make this model the right choice for schools.

#### The model has the following features:

- Head with nostril and mouth openings facilitates NG tube insertion for gastric lavage and gavage
- Tracheostomy opening for tube placement and care
- Bilateral forearm IV pads
- Deltoid, dorsogluteal, ventrogluteal, and vastus lateralis intramuscular injections possible
- Belly plate with interchangeable stoma locations facilitates colostomy and ileostomy care and colostomy irrigation
- Interchangeable female and male genitalia with reservoirs facilitates urinary catheterization and enema procedures
- Subclavian IV, various ostomy and chest tube openings for site care and maintenance

**Ref.no. P109**

**New**



**P110**

### Convalescent Kelly Nursing doll

Convalescent Kelly combines the ability to teach CPR with features to facilitate care procedures in a cost-effective, full-body adult manikin. Realistic articulation permits many patient care practices including range of motion, bed bath, and patient transfer technique. The anatomically accurate landmarks allow for realistic practice of CPR, identification of intramuscular sites, and urinary catheterization.

- Realistic limb articulation facilitates the practice of passive range of motion, patient transfer techniques and orthopedic care
- Head with anatomical landmarks allows the practice of basic care procedures, external denture care, and various oxygen delivery procedures

- Anatomically correct landmarks and realistic compressions/ ventilations for practicing correct CPR techniques and abdominal thrust maneuver
- Correct head tilt/chin lift must be performed for ventilation
- Removable, reusable mouthpieces and economical disposable airways reduce clean-up time
- Deltoid, gluteal, ventrogluteal, and thigh intramuscular injections possible
- Interchangeable male and female genitalia with reservoirs facilitate urinary catheterization and enema procedures with return
- Dressing and bandaging techniques, foot care, and application of antiembolism stockings may be performed
- Manual operated carotid pulse

**Ref.no. P110**





## 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 VitalSim 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
- VitalSim 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



Without VitalSim  
With VitalSim

Ref.no.: P120  
Ref.No. P121

If a VitalSim product is purchased for the first time, product training by the manufacturer is necessary. This has to be ordered with **Ref.no. R20101A**.





**New**



## Nursing Anne Manikin

Nursing Anne is a manikin designed for scenario-based training for the care and management of a wide variety of in-hospital patients. Nursing Anne is an efficient, effective, flexible manikin for clinical training in women's health, obstetrics, post-partum, wound assessment and care, and general patient assessment and care.

### Product Benefits:

- Educationally effective for in-hospital training targeting key skills for in-hospital care including women's health, obstetrics, post-partum care, wound assessment and care, and general patient care
- Economical and educationally efficient skills and scenario based trainer
- Durable, rugged and lifelike; made to withstand years of use
- Flexible manikin platform allows multiple accessory modules to be added including trauma, Nuclear Biological Chemical (NBC) Module, and bleeding control for use in multiple clinical settings

### 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
- 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
- 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 VitalSim 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

**Without VitalSim Ref.no.: P150**

**With VitalSim Ref.No. P121**

### Available options:

**Breast examination module Ref.no. P150/1**

**Mastectomy module Ref.no. P150/2**

**Fundus module Ref.no. P150/3**

**Wound assessment and care module Ref.no. P150/4**





## 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**



**R10021**



**R10022**

**R10023**

## Stump Bandaging Upper Torso

Upper torso with amputation stumps for bandaging training. Life size.

**Ref.no. R10022**

## Stump Bandaging Lower Torso

Lower torso with amputation stumps for bandaging training. Life size.

**Ref.no. R10023**



## 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**





R10167

**New**



### 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**



R10172

**New**

### 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**

### 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**



R10073



### 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**







**R10027**

### 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**



**R10067**

### Diabetic foot model

This lifelike diabetic foot model can be used for both patient education and student training. Made from lifelike material, the model contains three ulcers in various stages of development as well as other features commonly associated with diabetes. A graphic reminder of the importance of proper foot care. Comes with carrying case.

**Ref.no. R10067**



**R10067/1**

### Diabetic foot model, severe stage

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

**Size: 10 x 23 cm**

**Ref.no. R10067/1**



### „Wilma“ Wound Foot

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**



**R10227**

### 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**



**R10035**

### Common Foot Problems

An incredibly realistic, life-size, hand-painted 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**



**R10228**



7070

### 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**



R10066

### 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**



### 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**

## 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**



**R10136**



## 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**

## 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**



## Nasogastric & Tracheostomy Teaching Torso

The Nasogastric & Tracheostomy Teaching Torso is a 3-dimensional, 2-sided hand-painted torso. One side, covered with a transparent lid, shows the sagittal section including the nose, mouth, pharynx, trachea, esophagus, lungs and stomach. The other side depicts the anatomically correct view of a human torso for teaching the proper method of measuring the NG tube's length.

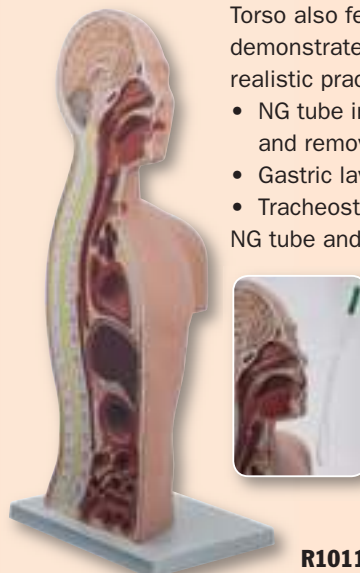
Torso also features a tracheostomy to demonstrate a variety of care techniques. For realistic practice of the following procedures:

- NG tube insertion, irrigation, monitoring and removal
  - Gastric lavage and gavage
  - Tracheostomy care and suctioning
- NG tube and tracheal tube not included

**Size: 75 x 33 x 25 cm**

**Weight: 4,4 kg**

**Ref.no. R10119**



**R10119**

## 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.

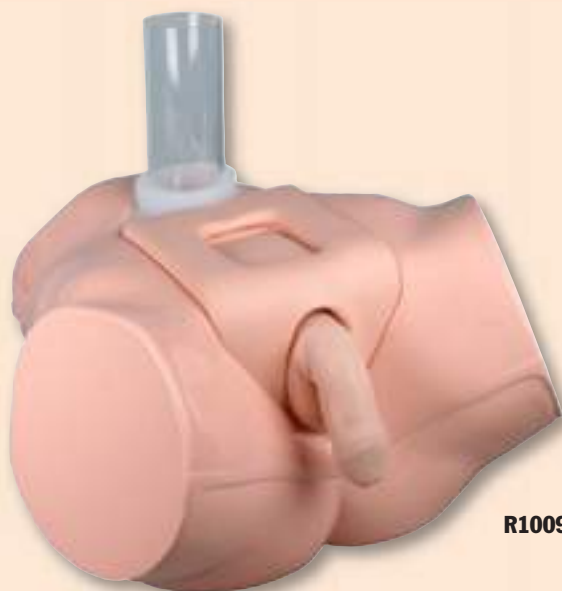
**Size: 58.5 x 30.5 x 8 cm**

**Ref.no. R10115**



**R10115**





**R10098**



### **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**



**R10099**

### **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**



**R10855**

### **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**



**R10856**

### **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**



LM29

### 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**



LM61

### 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**

### 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**



LM25

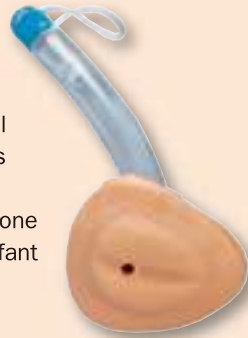
### Infant Male and Female Catheterization Trainer

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**



**R10857**

**New**

**New**



**8001**

**New**



**8002**

### Male Bladder Catheterisation Simulator

Actual cast of a male Adult. The special materials give the model the same touch and feel like a real patient. The catheterization can be trained including disinfection procedure, inserting the catheter has the same resistance as in a real patient. Suprapubic catheterization is possible in this model.

**Ref.no. 8001**

### Female Bladder Catheterization Simulator

Actual cast of a female Adult. The special materials give the model the same touch and feel like a real patient. The catheterization can be trained including disinfection procedure, inserting the catheter has the same resistance as in a real patient. Suprapubic catheterization is possible in this model.

**Ref.no. 8002**





### 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**

**New**



### 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:

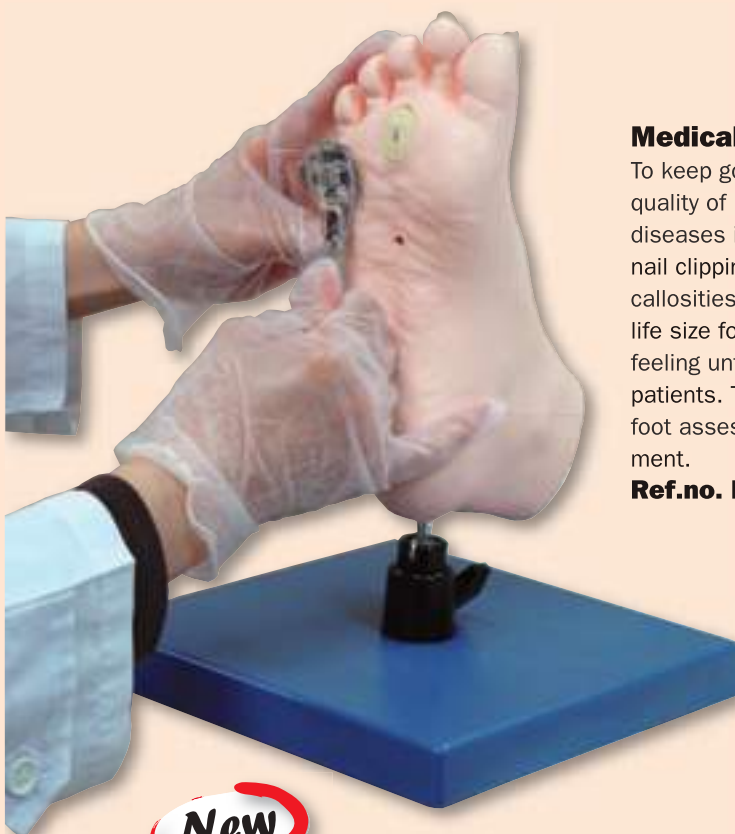
- Toe nail, ingrown, 20pcs set
- Toe nail, ringworm, 20pcs set
- Callosity, 10pcs set
- Corn, 10pcs set

**Ref.no. R16080A**

**Ref.no. R16080B**

**Ref.no. R16080C**

**Ref.no. R16080D**



**New**





### 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.

### Walking stick

Gives the experience how to support yourself with the stick.



The visual field is narrowed; it is harder to identify letters and colours.



Difficulty in going up or down the stairs.

### 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



LM60

### 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



Standing up or sitting down onto a chair or toilet is very difficult.



The trainee has difficulty to hear sounds.



Bending the joints becomes difficult.



### **Age Simulation Trial Set**

This set includes the most important parts of the full age simulation set: Elbow restrictor left, knee restrictor left, wrist weight, ankle weight, 10 ear plugs, 1 pair gloves and the age goggles. As a reasonable priced alternative to the full age simulation set it allows schools with low budget to sensitise its students for the limitations aged people face. The parts are the same as in the full age simulation set, but the quantity of parts is less.

**Ref.no. LM67**

### **„Drunk’n Dangerous“ Simulation Glasses**

This special simulation glasses allow the wearers to experience the visual distortion, loss of perception, and lack of control that make drunk drivers so dangerous. No specific blood alcohol concentration is represented.

**Ref.no. R10085**





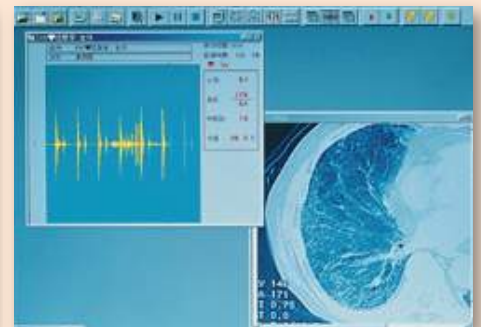


### Cardiology Patient

Life size simulator for examination of a cardiology patient. This simulator provides real heart sounds and murmurs. The palpation and auscultation can be made as in a real patient and with a real stethoscope. The model also provides real pulse and respiration movement. The supplied computer gives the corresponding waves for ECG, JVP, CAP and ACG. The model simulates 88 cases in total, including 12 normal heart sounds, 14 heart diseases, 10 Arrhythmias and 52 ECG Arrhythmias.

Supplied with body, control unit and computer.

**Ref.no. R16120**



### Lung Auscultation Trainer

First class breath sound simulator with real patient sounds. The model includes 35 cases, 33 of these can be used with or without heart sounds. The auscultation can be made with any normal stethoscope. The system comes with a computer that shows the referring wave and additionally information like e.g. illustrations, x-ray images and ct-scans.

**Ref.no. R16121**



### Cardiology Patient and Auscultation Combination Package

Both simulators in a reasonable priced combination package. Because both simulators share only one computer, only one can be used at one time.

**Ref.no. R16122**

**R16122**



### 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**

### Smartscope

Additional Stethoscope for trainer **R10001**.

**Ref.no. R10002**

### 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.

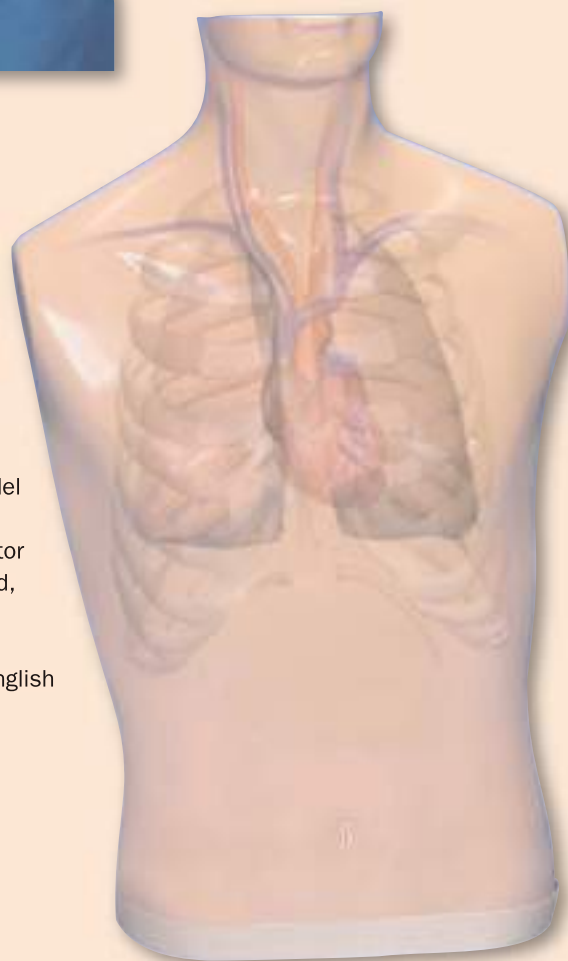
**Ref.no. R10003**

### Auscultation Upgrade Kit for GERI/KERI manikin

Ger/Keri manikins can be found on page 139. 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**. Supplied with remote control and smartscope.

**For GERI Ref.no. R10032**

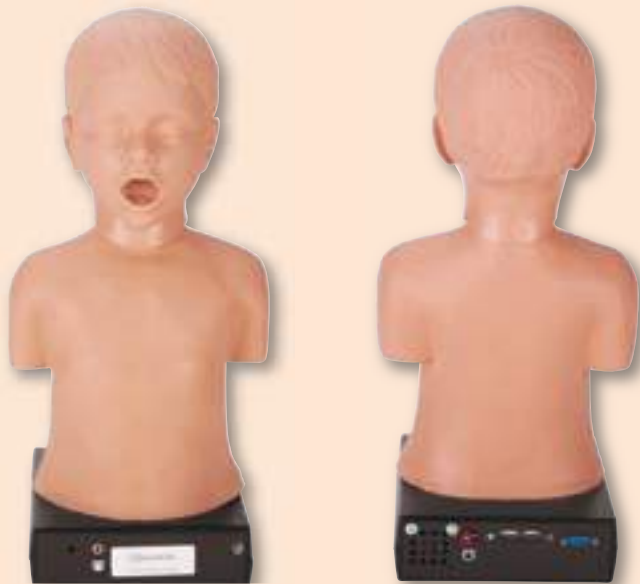
**For KERI Ref.no. R10033**



**R10001**



**R10003**



### **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 from either a conventional PC configuration using your mouse and monitor, or through the special handheld remote. 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. Simply plug in, attach your USB mouse and monitor cable, and point and click your way to student excellence in lung and heart sound knowledge.

The unit comes with a power cord, user reference, and carry case. No assembly of manikin or installation of programming is required.

**Ref.no. R11000**



### **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**





### 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**



### Spare parts:

Replacement tubing

**Ref.no. R10105A**

Replacement artificial blood

**Ref.no. R10105B**



**R10077**

### 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**

### Additional Options:

Upgrade kit for simulation of Obese patients

**Ref. R10077/1**

Extra long tubes for use with large groups when practising lumbar puncture techniques. Set of 3.

**Ref.no. R10077/2**

### Standard spare parts:

Fluid Filled Spinal Cords (length 15cm) pre-filled tubes supplied as standard – set of 5

**Ref.no. R10077A**

Replacement Skin

**Ref.no. R10077B**

## 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**



**R16604**

**New**



**R16603**

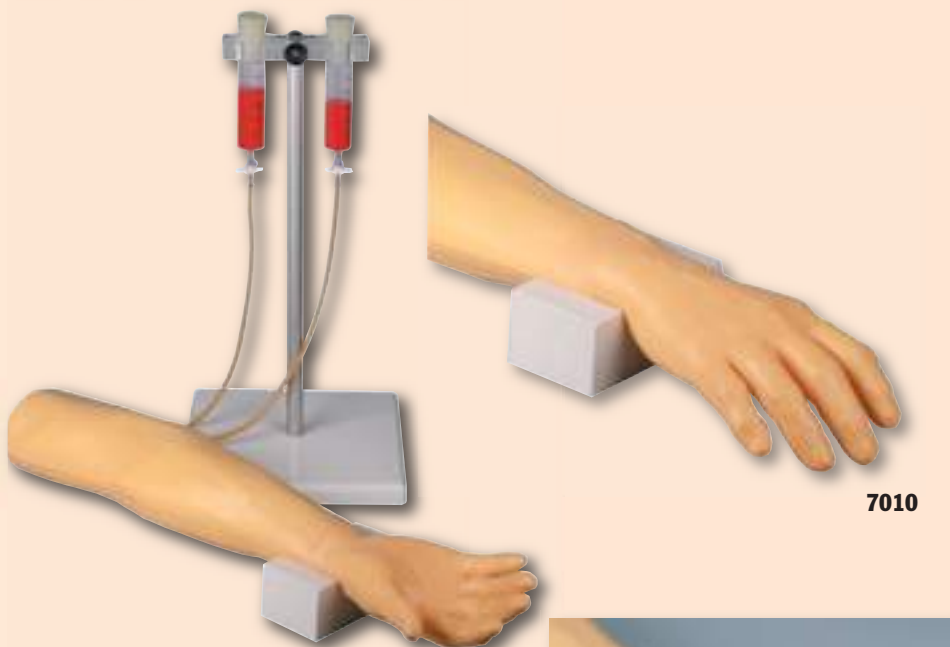
**New**

## 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**





7010

## 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:

Replacement hand skin

**Ref.no. 7009**

Replacement arm skin

**Ref.no. 7011**

Replacement vein

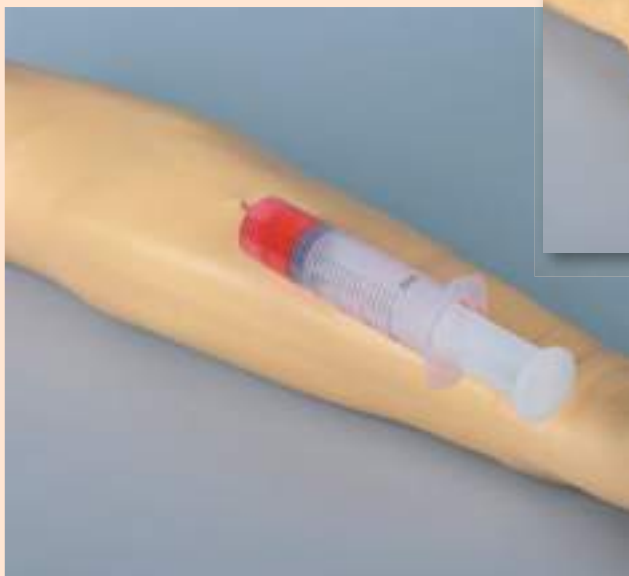
**Ref.no. 7012**

Replacement-Injection pad

**Ref.no. 7015**

Color pigment for blood-colored fluid

**Ref.no. 7014**



## 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:

Replacement skin

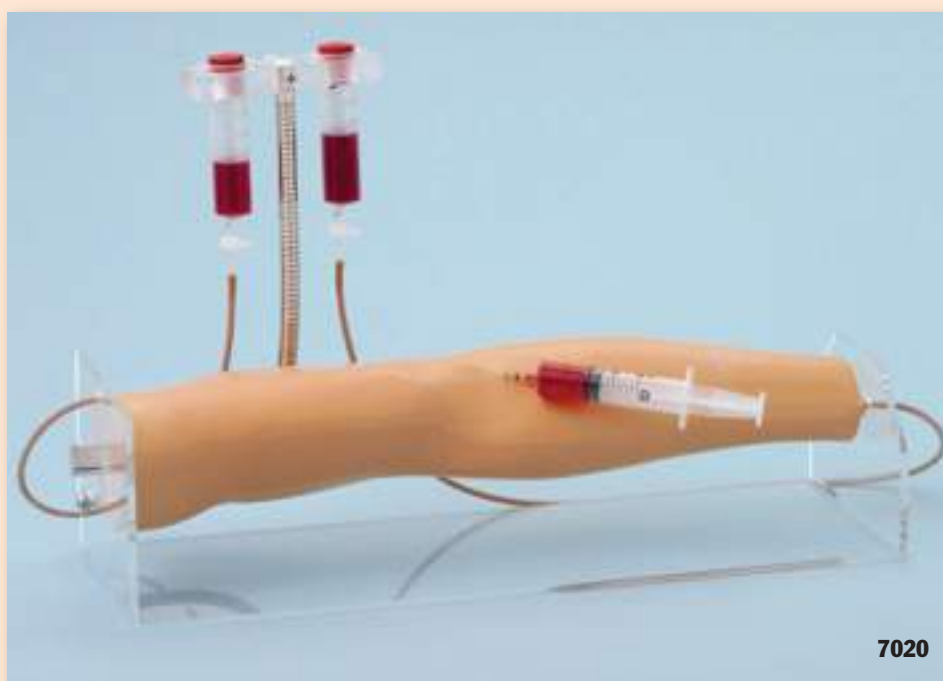
**Ref.no. 7021**

Replacement vein

**Ref.no. 7022**

Injection pad

**Ref.no. 7023**



7020





### Training arm intravenous injection

This injection training model has the most injectable veins.

#### The following veins can be punctured:

- Basilic V.
- Dorsal Metacarpal V.
- Median Basilic V.
- Cephalic V.
- Digital V.
- Median Cephalic V.
- Accessory cephalic V.
- Thumb V.
- Median antebrachial V.
- Median cubital V.

Vein and skin can be replaced, the arm is moveable to enable the student to develop manipulation skills. I.m and subcutaneous injection is also possible at this model. Supplied with storage case.

**Ref.no. R10004**

#### Spare parts:

Replacement set skin and vein

**Ref.no. R10004A**

Replacement vein

**Ref.no. R10004B**



**R10004**



### 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:

Replacement set skin and vein

**Ref.no. R10017A**

Replacement vein

**Ref.no. R10017B**





LM28

### 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:

Spare part set complete

**Ref.no. LM28A**

Replacement vein (10 pcs)

**Ref.no. LM28C**

Replacement skin

**Ref.no. LM28S**



LM74



### 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:

Replacement skin upper arm

**Ref.no. LM741**

Replacement skin lower arm

**Ref.no. LM742**

Replacement skin hand

**Ref.no. LM743**

Injection site IV

**Ref.no. LM744**

IM-Injection site gel pad

**Ref.no. LM745**

IM-Injection site sponge

**Ref.no. LM746**

Subcutaneous Injection site surface

**Ref.no. LM747**

Subcutaneous Injection site sponge

**Ref.no. LM748**



### 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**



### 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**

### Portable IV Arm and Hand Trainers

The economical Portable IV 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 IV skills. The Portable IV 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 ante-cubital 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 IV 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**





R10170

**New**

### Baby IV 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 IV 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**



R10171

**New**

### Baby IV 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 IV 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**

### Baby Arti arterial puncture trainer

Lifelike reproduction of an infant arm with bony structures allows students to master the technique of neonatal radial artery puncture.

- Percutaneous puncture site in radial artery
- Mechanical radial artery pulse generator provides realistic arterial pressure
- Simulated blood may be infused for blood backflow in syringe
- Replaceable skin and artery ensures longevity of model
- Mounted on a base

**Ref.no. R20201**



### 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 Injection arms are disposable items and have to be replaced after intensive use.

**Injection arm, 1 year old**

**Injection arm, 3 year old**

**Ref.no. R16680**

**Ref.no. R16682**

### 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**



**R10006**



### 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**



**R18800**

### Advanced Venipuncture Training Aid

Your patients don't have one size of veins, so why teach and learn on a "one size fits all" IV arm? This model allows you to improve competency and technique by progressing from easier, larger veins to the more difficult, smaller veins. Many hospitals and home health agencies utilize the Advanced Venipuncture Training Aid to ensure that the competency of all staff members is assessed, maintained, demonstrated and improved continually. Features four barely discernable blue veins in 3 different diameters – and a forth vein deeply placed in a semi-transparent, tissue-like material. A "pop" is felt as the needle enters the vein, followed by a realistic "flashback" of simulated blood confirming the proper needle placement. This simple, easy to set-up, lightweight, compact, non-staining and cost-effective training model is a new alternative to bulky, heavier and more expensive models.

**Ref.no. R18800**



**R18801**

### Venipuncture Training Aid

This unique training aid permits the realistic practice of venipuncture techniques as well as being an excellent model to practice the mechanics of the new "no stick" I.V. access devices. The model displays blue veins, which are barely discernible through a semi-transparent, tissue-like material. When accessing, the skin rolls as you palpate the vein and a "pop" is felt as the needle enters the vein. Proper placement is confirmed by drawing back on the syringe. If resistance is experienced, the tip has either not been advanced far enough or advanced too far. This Four-Vein Venipuncture Training Aid has three different sized veins and one deeply placed vein. The model enables the user to improve competency and technique by progressing from the easier, larger veins to the more difficult, smaller veins. This cost effective, lightweight, easily transportable and non-staining model is an alternative to the bulky, heavier and more expensive models.

**Ref.no. R18801**



### 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**



### Baby Ivy Infant injection head

Simulated infant head with internally molded scalp veins designed for practicing neonatal peripheral venous access.

- Life-size neonate head with internally molded scalp veins
- Peripheral IV line insertion and removal for fluid and medication administration after patient stabilization
- Infusible veins allow realistic flash to confirm proper placement
- Maintenance and securing of line
- Mounted on a hard-side case

**Ref.no. R20203**



**R10009**

### 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**

### 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**



**R10076**





### 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**



### 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**

**168**



### 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 localised using the Hochstetter method. The skin and the injection fields are separately available and replaceable. The simulator can be operated on battery power or with an AC power adaptor (supplied in package). Comes complete with transport case.

**Ref.no. LM57**



**R10961**

### 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**



**R10011**

### 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**



**R10096**

### 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**



### 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**





## 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: i.e. 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**



**R10013**

## Heart Catheterisation Simulator

In this accurately modelled human chest all appropriate landmarks are palpable for realistic identification of injection sites. Artificial blood is connected to provide confirmation of proper needle location. A venous catheter can be snaked into place once the introducer is properly inserted. The skin may also be removed to reveal dissected musculature and location of veins and arteries.

### Allows one to practice:

- Heart catheterisation
- Care of the puncture site
- Measurement of central venal pressure
- Bandaging techniques

Delivered with replacement skin, needles, artificial blood and carrying case.

**Size: 71 x 43 x 25.5 m**

**Weight: 15 kg**

**Ref.no. R10013**



**R10020**

## 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**





**R16051**

### 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:
  - subclavian vein approach
  - supraclavicular approach
  - 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**





## 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**

**Body Vein Tubing Set Ref.no. R18802D**

### Arm Vein Tubing Set

Median basilic, basilic and cephalic veins

**Ref.no. R18802B**

**Muscle Tissue Ref.no. R18802E**

**Rib Replacement Ref.no. R18802F**

**Body Skin Replacement Ref.no. R18802C**



**R18803**



## 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**

**New**

Arm for peripheral port  
now included!

### Available Spare parts:

#### 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**

#### 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**

#### 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**

#### Outer Tissue Flap Replacement

**Ref.no. R18803D**

### Available options:

#### 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**

**New**



## 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**

Artificial blood, dark, 500ml

**Ref.no. LM93E**

LM93



R16060

## Simulator for total parenteral nutrition

This model is designed to understand central vein catheterisation and to practice the care for patients with total parenteral nutrition (TPN). The model has three venous access routes (subclavian vein, internal jugular vein). In this area the model is made of transparent material to allow observation of all internal structures. Due to this the model is ideal also for theoretical teaching as well as for patient education. The heart can be opened to show the position of the tricuspid valve. For practical training the transparent part can be covered with a skin which is suitable for bandaging and disinfection practice. Supplied with head support and transport case.

**Ref.no. R16060**



### 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**



**R10016**



**R16620**



### 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**



**R10018**

### 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**



**R10019**

### 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**

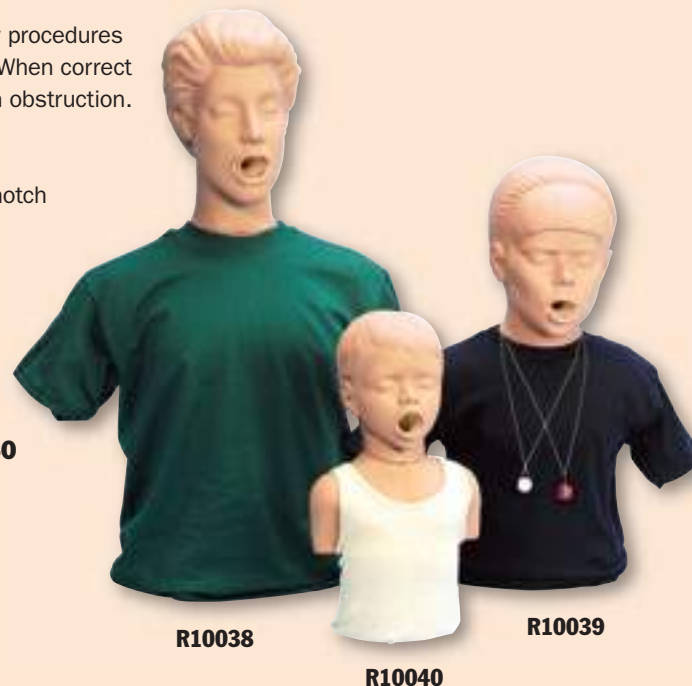
**Ref.no. R10019**

## 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.



### Adult

Size: 79x46x25.5cm  
Weight: 7.3 kg  
Ref.no. R10038

### Adolescent

Weight: 4.6 kg  
Ref.no. R10039

### Child

Weight: 2.5 kg  
Ref.no. R10040

## Obese Choking Manikin

Size: 71 x 46 x 26 cm  
Weight: 11 kg  
Ref.no. R10140



## Infant Choking Manikin

Size: 66 x 21 x 21 cm  
Weight: 3.3 kg  
Ref.no. R10141



**New**



## 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



## 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



### 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 supra-glottic 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**



**R18100**



### 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**

### Intubation Trainer AirSim Bronchi

Intubation trainer as AirSim Multi, but with the additional option to practice bronchoscopy to the bronchioles on the tertiary bronchi.

**Ref.no. R18300**

### Intubation Trainer AirSim Stent

Intubation trainer as AirSim Standard, but with extended oesophagus and semitransparent airway for positioning feedback. Model for Stent positioning practice.

**Ref.no. R18400**

### Additional option:

Break-out Incisor teeth as option for the intubation trainers

**Ref.no. R18500**

**R18200**



**Air Sim Advance**

**Ref.no. R18510**

**Air Sim Advance with breaking teeth**

**Ref.no. R18520**

**Air Sim Advance with bronchial tree**

**Ref.no. R18530**

**Air Sim Advance with bronchial tree and breaking teeth**

**Ref.no. R18540**



### 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.





### AirSim Junior

AirSim Junior has a realistic anatomy and a clinical functionality that enables basic and advanced paediatric airway management. It facilitates training in the use of bag/mask ventilation, supraglottic airway insertion and both naso- and orotracheal intubation. In addition it can be used with all videolaryngoscopes. Recommended sizes of tracheal tubes are 3.4 - 4.0, supraglottic airway size is 1. Recommended size of videolaryngoscope is 1. Supplied on lightweight stand and with soft carry case.

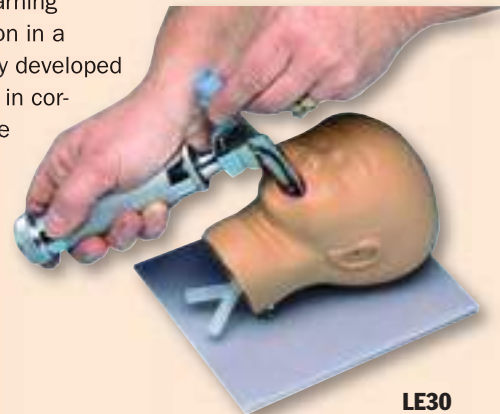
**Ref.no. R18550**



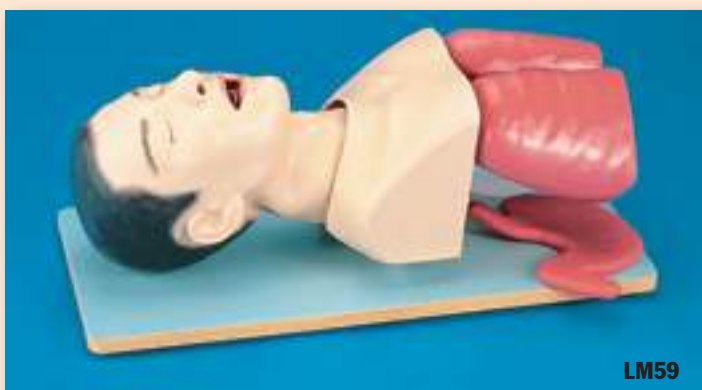
### Intubation head, neonate

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

**Ref.no. LE30**



**LE30**



**LM59**

### Adult Intubation Trainer

Highly realistic model of an adult. Manufactured of special plastic for an extremely realistic representation of the oropharynx and respiratory tract. The model can be used with all common instruments and tubes. A stethoscope can be used to monitor respiratory sounds on left or the right. With acoustic pressure sensor in the teeth.

**Ref.no. LM59**

### Intubation- and Reanimation Neonate

Life size Neonate with the opportunity of intubation and bag valve mask ventilation as well as chest compression.

#### Features are:

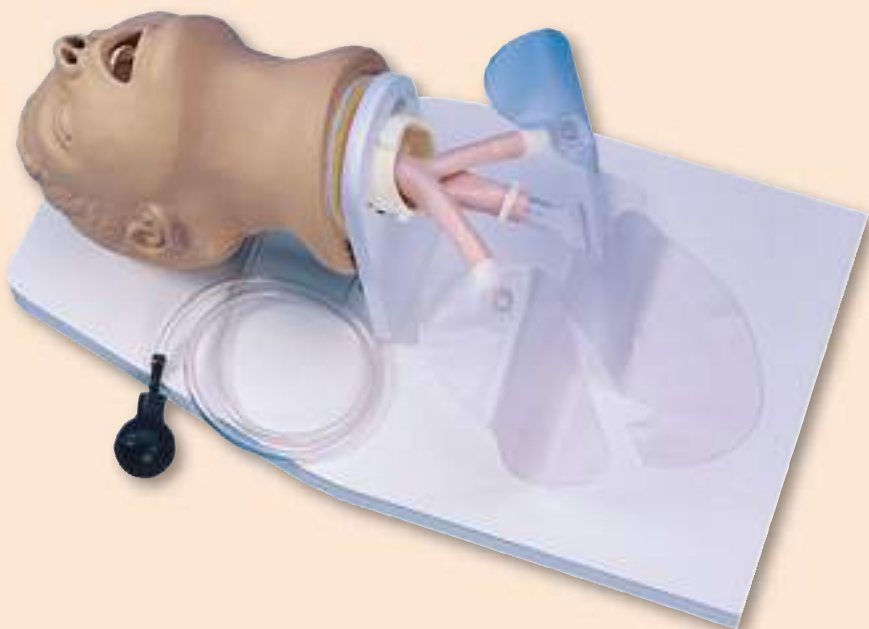
- Use of intubation tube or laryngeal masks
- Recognition of one-sided lung intubation
- Bag valve mask ventilation
- Oral and nasal suction practice
- Chest compression
- Umbilical vein catheterisation
- Determination of heart rate at umbilical cord (manual)

**Ref.no. LM89**



**LM89**





### 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**

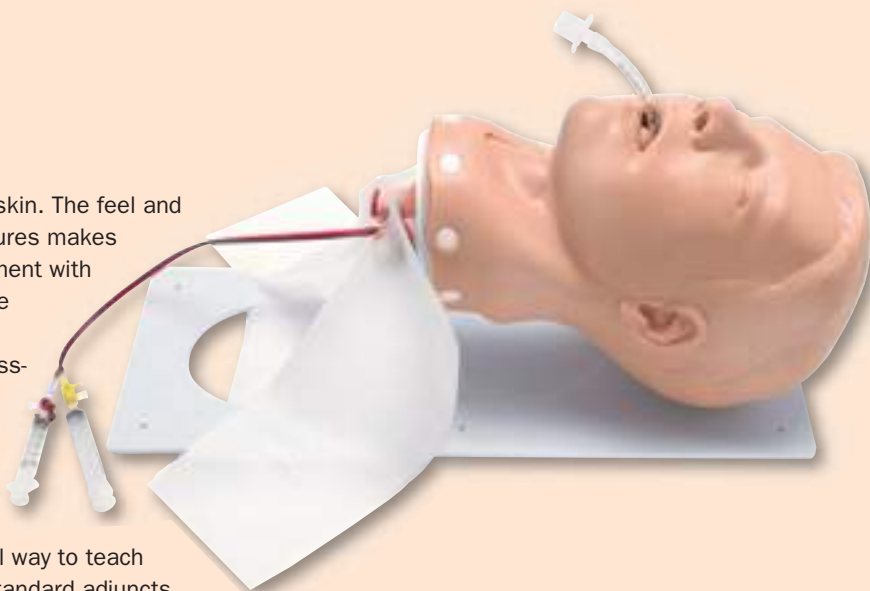
### Adult Deluxe Airway Management Trainer with Board

- The only head of it's 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

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.

**Weight 7.7 kg.**

**Ref.no. R10118**



### 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**





**R10036**



### **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**

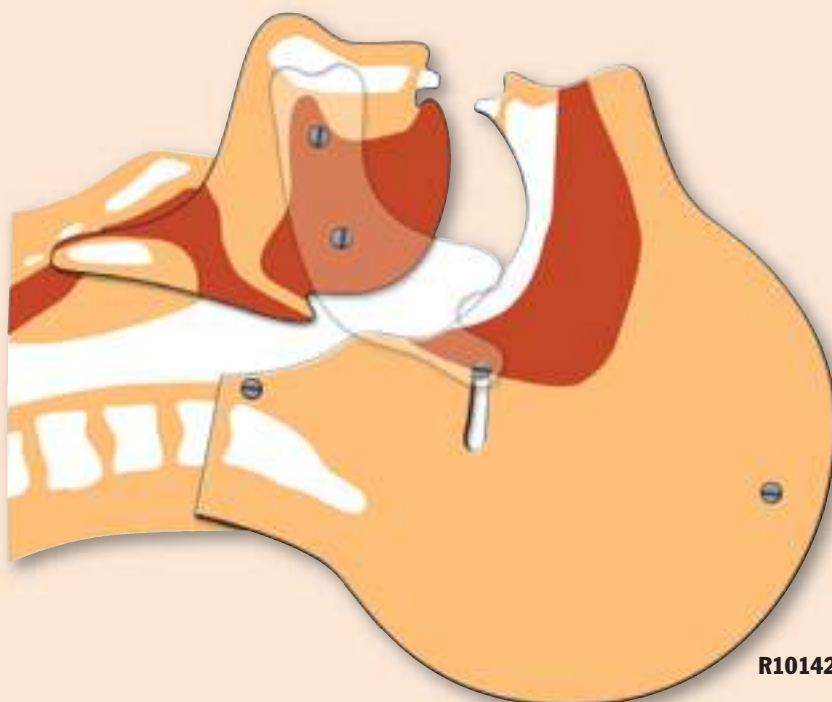
### **Cricotracheotomy Trainer**

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**



**R10095**



**R10142**



### **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**



### 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**



**R10041**



**R10143**

### 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**

### Simulator for punch biopsy of the iliac crest

Training model for training of 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. The model is designed to be an economic disposable training aid and need to be replaced after intensive use. Life size.

**Ref.no. 7090**



**7090**



### 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 mid-axillary 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**

### 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**

**R10130**



### 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**

#### 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**

**R10078**





**R10090**

### 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**

### Available supplies:

#### Replacement Airways

Pack of 100 pcs

**Ref.no. R10090A**

#### Airway insertion tool

For easy airway replacement

**Ref.no. R10090B**



**R20040**

### Mini Anne 20pcs Set

This innovative self-learning product that teaches lay people, the core skills to perform Adult and Child CPR in just 30 minutes.

The Mini Anne Set provides a 30 minutes long learning CD practical exercises with the principle of “watch and join in” as well as a Mini Anne manikin with integrated adult/child compression clicker.

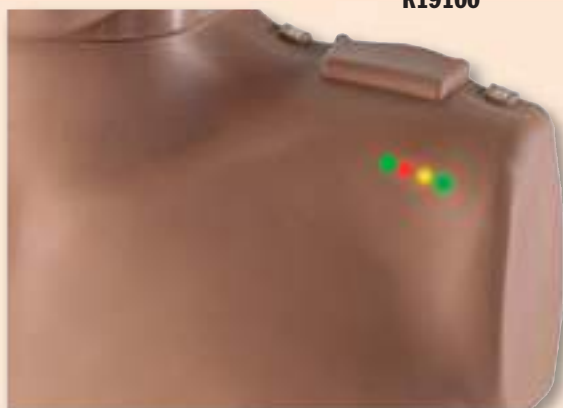
This set contains 20 single packed Mini-Anne boxes.

In each box you will find: 1 MiniAnne, 1 DVD, 1AED and mobile phone dummy, 2 knee protectors, 2 replacement lungs, 2 manikin wipes and a short instruction.

**Ref.no. R20040**



**R19100**



### 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:

#### Sanitary Airways

Set of 50pcs

**Ref.no. R19100A**

#### Face shields

50pcs for Group education

**Ref.no. R19100B**



**New**

### 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**

### 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**

### 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**

### 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**

### 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**

**Replacement face skins, 6pcs**

**Ref.no. R20050A**

**Replacement Airways, 24pcs**

**Ref.no. R20050B**

**Replacement Airways, 96pcs**

**Ref.no. R20050C**

**R20050**



#### Available Supplies:

**Mouth/Nosepieces**

Pkg. of 10

**Ref.no. R10054A**

**Lung/Airway Systems**

Pkg. of 24

**Ref.no. R10054B**



#### Available Supplies:

**Mouth/Nosepieces**

Pkg. of 10

**Ref.no. R10087A**

**Lung/Airway Systems**

Pkg. of 24

**Ref.no. R10087B**



### Available Supplies:

**Mouth/Nosepieces**

Pkg. of 10

**Ref.no. R10053A**

**Lung/Airway Systems**

Pkg. of 10

**Ref.no. R10053B**



### 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**

### 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**



### CPR Recording manikin

The CPR Recording Manikin eliminates the challenge every instructor faces: adequately gauging student performance. This manikin precisely measures all of the actions associated with CPR and compares them to the AHA CPR Standards. Results are scored as a percentage of the performance compared to the standards. There are no programming issues and no extra equipment needed. Select a performance time span and initiate the recording. When the student completes their skill test for the length of time necessary, the recording device automatically rates the student on a percentage basis according to the preset parameters. For instance, eliminate the ventilation parameters and the score will reflect pure compression information. Leave all the parameters active and you can determine when certifiable CPR has been performed. Print options allow you to store the record or create paper documents. Real time evaluation of the student's performance by the instructor occurs on the screen of the Netbook. Instructor correction and encouragement changes a poor performance into an acceptable one. Print out the performance and show the student how much they have improved. This manikin uses simple and economic airway and face pieces. Included with the manikin are three face pieces, three lungs, carry case, and user information.

**Ref.no. R10015**



**R10051**

### 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 over weighted 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**



**New**



### Resusci Anne Basic

Provides high level adult CPR training with First Aid and Rescue techniques.

- Realistic Full Body Anatomy and landmarks allow learning of correct techniques in patient handling and high level CPR knowledge
- Naturally obstructed airway requires chin lift for correct head position
- Realistic resistance during chest compression enables student to learn proper compression depth.
- Manually operated carotid pulse.
- Simple and economical use of disposable airways.
- Removable and reusable face skins can be cleaned and disinfected easily using Virkon fluid.
- Available as Full Body, Torso, with Hard case or carrying bag.
- Comes with 4 face skins, 3 airways, suit (full body) or jacket (torso), Instruction manual, 1 bottle disinfection fluid.

**Version Torso Basic, without electronics, with hard case**

**Ref.No. 20001**

**Version Torso Basic, without electronics, with carrying bag**

**Ref.No. 20002**

**Version Full Body Basic, without electronics, with hard case**

**Ref.No. 20007**

**Disposable materials:**

**Replacement face skins, pack of 6**

**Ref.No. R20001A**

**Replacement airways, pack of 24**

**Ref.No. R20001B**



**New**

### Resusci Anne SkillGuide

This excellent Training model has the same features like the Resusci Anne Basic, but with an additional SkillGuide Indicating Unit, giving optical feedback about ventilation, compression and hand position.

**Version Torso with SkillGuide, with hard case**

**Ref.no. R20003**

**Version Torso with SkillGuide, with carrying bag**

**Ref.no. R20004**

**Version Full Body with SkillGuide, with hard case**

**Ref.no. R20008**







## Resusci Anne SkillReporter

The Resusci Anne SkillReporter is an adult CPR Training model that provides printed documentation of the student's performance concerning ventilation and compression. Additionally first aid and Rescue techniques can be trained using the optional first aid and rescue module

### Product benefits:

- Educationally effective by focusing on the performance level of key CPR skills and techniques
- Cost efficient through easy to use and maintain disposable airways
- Realistic full-body anatomy and landmarks provide the essential features necessary to learn realistic victim handling and quality adult CPR skills
- Enhanced student motivation through use of the optional SkillReporter module that allows both real-time CPR performance feedback during training and a comprehensive post intervention performance report for instructor-to-student debriefing
- Modular design allows various limbs to be attached to enhance training

### Product features:

- 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 victim
- Head tilt/chin lift and jaw thrust allows students to correctly practice airway maneuvers necessary when resuscitating a real victim
- Occluded airway with hyperextension stresses proper head position
- Realistic resistance for chest compressions allow the students to experience the amount of pressure needed to perform proper chest compressions in a real life situation
- Anatomically correct landmarks and sternal notch allow the students to practice identification of all anatomical landmarks relevant to adult CPR
- 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
- SkillReporter CPR performance module provides immediate objective feedback on ventilation duration and volume, compression depth, and hand position, and allows a comprehensive printed report for student performance documentation and debriefing
- Removable/reusable faces allow each student to have their own mouth-to-mouth face and offers easy after class cleaning and sanitation
- Comes with 4 face skins, 3 disposable airways, Suit (full body) or jacket (Torso), Instruction guide, 1 bottle of disinfection fluid.
- Including CD-ROM with Software for PC based analysis

**Version Torso with SkillReporter, with hard case**

**Ref.no. R20005**

**Version Torso with Electronics (without SkillReporter),with hard case**

**Ref.no. R20006**

**Version Full Body with SkillReporter,with hard case**

**Ref.no. R20009**





### 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**

### AED Resusci Anne

The AED Resusci Anne is an adult CPR manikin developed specifically to work in combination with the AED Trainer 2 device using Link Technology.

- SkillGuide or SkillReporter CPR performance modules that provide immediate objective feedback on ventilation duration and volume, compression depth, and hand position. The SkillReporter module offers an additional comprehensive printed report for student performance documentation and debriefing
- Dynamic pad placement feedback through unique sensors and LEDs in the manikin's chest skin and special sensorized training pads providing pad placement accuracy
- Voice feedback provided by the AED Trainer 2 device as scenarios will not advance until proper pad placement is achieved
- Instructor flexibility and control with the optional AED Trainer 2 remote control allows selection, pausing, resuming, and overriding the scenario in progress



#### Link Technology

- The unique Link technology has no visible connectors on the chest skin, however there is complete communication between AED Trainer 2 and the training model.

Includes 4 face skins, 3 disposable airways, suit (Full Body) or Jacket (Torso) and instruction manual.

**Version Torso, SkillGuide, with hard case**

**Ref.no. R20200**

**Version Torso, SkillReporter, with hard case**

**Ref.no. R20210**

**Version Full Body, SkillGuide, with hard case**

**Ref.no. R20220**

**Version Full Body, SkillReporter, with hard case**

**Ref.no. R20230**

**AED Trainer with 10 Scenarios**

**Ref.no. R20240**

**Programming set for AED Trainer**

**Ref.no. R20241**

**Remote control for AED Trainer**

**Ref.no. R20242**

### 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**



### 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**



### 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**



### 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 victimEinfach austauschbare Luftwege
- Removable and reusable faces for convenient and affordable maintenance
- 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**



**R20280**

### 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**



**R10055**

### 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
- Soft carrying bag

**Size: 66 x 20.5 x 20.5 cm,**

**Weight: 2.8 kg**

**Ref.no. R10056**



**R10056**

**Replacement Mouth/Nose Pieces, 10 pcs**

**Ref.no. R10056A**

**Replacement Airways, 24 pcs**

**Ref.no. R10056B**

## 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**



**R10057**



**Replacement Face skins, 6pcs**

**Ref.no. R20285A**

**Replacement Airways, 24pcs**

**Ref.no. R20285B**

**Replacement Airways, 96pcs**

**Ref.no. R20285C**

**R20285**

## Resusci Baby

The Resusci Baby manikin offers realism and quality to infant CPR education. Its full-body construction, and use of the optional SkillGuide performance indicator enable students to quickly sharpen their skills in performing infant CPR to high standards.

- Realistic anatomical body and landmarks provide the essential features necessary to learn realistic infant handling and quality infant CPR skills
- 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 victim
- Head tilt/chin lift and jaw thrust allows students to correctly practice airway maneuvers necessary when resuscitating a real patient
- Realistic chest rise verifies correct ventilations
- 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
- Brachial pulse simulation to realistically check for pulse
- Optional SkillGuide CPR performance indicator provides immediate objective feedback on ventilation duration and volume, compression depth and finger position
- Re-useable Face Skins
- Logistically convenient carrying case for easy transportation and storage

**Version Basic Ref.no. R20285**

**Version SkillGuide Ref.no. R20290**

## Baby Buddy

Includes 10 airways

**Ref.no. R10091**

## Baby Buddy 5-Pack

Includes 5 manikins, carry bag and 50 airways

**Ref.no. R10091/1**

## Baby Buddy 10 Pack

Includes 10 manikins, carry bag and 100 airways

**Ref.no. R10091/2**

## Available supplies:

### Replacement Airways

Pack of 100 pcs

**Ref.no. R10091A**

### Airway insertion tool

For easy airway replacement

**Ref.no. R10091B**



**R10091**

## Baby Buddy CPR Manikin

With the same easy-to-use features as Basic Buddy this manikin represents a full body infant.

**New**



### 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**

**Replacement airways, 50 pcs**

**Ref.no. R19200A**

**Replacement face shields, 50 pcs**

**Ref.no. R19200B**



**R19200**

**New**



### Baby Anne

The Baby Anne manikin is an inexpensive training model for instruction of parents.

- Set of 4 weighs less than 6kg
- 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**

**Baby Anne Pack of 4 with carry bag**

**Ref.no. R20300/1**

**Replacement face skins, 6pcs**

**Ref.no. R20300A**

**Replacement Airways, 24pcs**

**Ref.no. R20300B**



**R20300**

**New**

### 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 among an adults, a child and an infant. The new Family Pack comes complete with one Little Anne, one Little Junior, and one Baby Anne 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.

**Ref.no. R20310**

**Spare parts see articles**

**R20050, page 183**

**R20280, page 189**

**R20300, page 191**



**R20310**



## 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**



**R10052**



### Light control- ler for R10052

Control lights for hand position, ventilation and compression.

**Ref.no. R10052/1**

### Monitor for R10052

Additional to the indicating lights of **R10052/1** this unit shows average results of the whole training.

**Ref.no. R10052/2**

### 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**



### CPR Torso Adult

Model like **R10052**, but without legs.

**Ref.no. R10052/4**



### Injectable Training Arm

This famous IV Arm is available in a version that connects to the right arm socket of the **R10052** manikins. Features realistic vinyl skin and latex veins so the skin actually rolls as you palpate the vein, and the characteristic "pop" can be felt as the needle penetrates the vein. Realistic flashback occurs with proper insertion. The arm pivots at the elbow for easy accessibility to antecubital fossa, along the forearm, and at the back of the hand. A bony landmark at the shoulder helps identify muscle tissue for intramuscular injections.

**Weight: 5 kg**

**Ref.no. R10052/5**

### Replacement Skin and Vein Kit.

**Weight: 0.6 kg**

**Ref.no. R10052/5A**



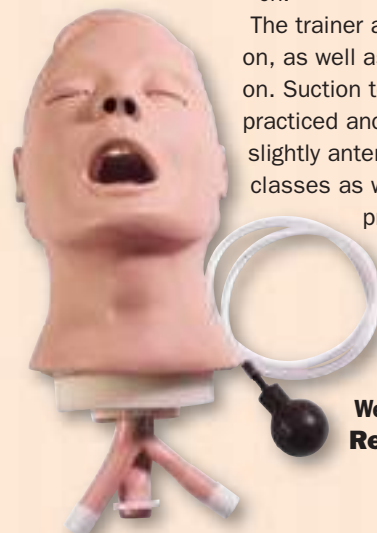
### "Airway Larry" Adult Airway Management Trainer Head

"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**



## 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

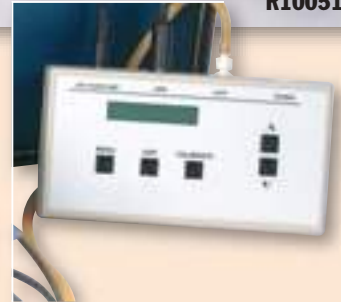
**Ref.no. R10052/8**



## Speaker for R10052/8

Allows to hear the sounds without using a stethoscope.

**Ref.no. R10052/8A**



## 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**



**R10052/7**

## Interactive ECG Simulator

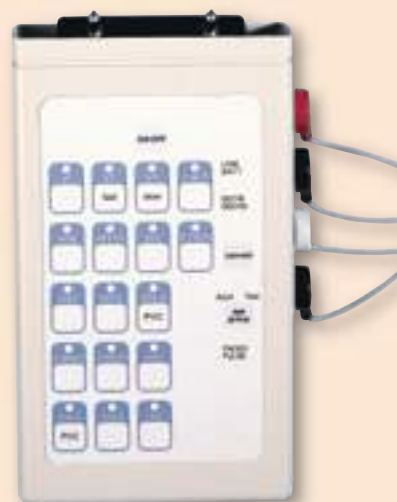
- Defibrillation shock can be delivered through manikin or simulator
- Practice operating your defibrillator/external pacer without a manikin. Connect defibrillator/external pacer to simulator using adapters
- Built-in circuitry allows you to defibrillate and pace directly into the simulator and observe 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 T waves
- Requires one 9-volt alkaline battery



**R10052/9**

**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.

## 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**

## 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**

## Deluxe “PLUS” CRiSis Manikin

The “pluses” are the addition of an Interactive ECG Simulator, 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:

Manikin Case

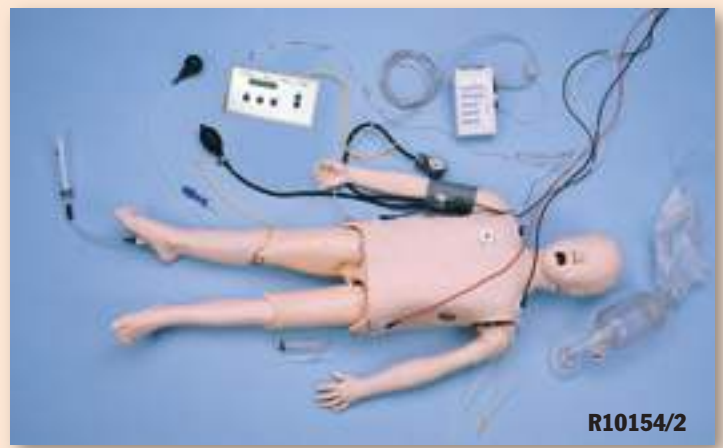
**Weight: 12.7 kg**

**Ref.no. R10153A**





**R10154/1**



**R10154/2**

### **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.

**Ref.no. R10154/1**

### **Deluxe Child CRiSis Manikin with ECG Simulator**

The Deluxe Child CRiSis Manikin features the same quality components as the Child CRiSis™ Manikin with the addition of a hand-held Arrhythmia Patient Simulator. 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.

**Height: 119 cm**

**Weight: 9.5 kg**

**Ref.no. R10154/2**

### **Infant CRiSis Manikin**

#### **Practice:**

- CPR
- Airway Management
- IV Procedures on Both Arm & Leg
- Intraosseous Infusion
- Umbilical Cannulation

Everything you need in one manikin! This dramatic, state-of-the-art training manikin is a complete resuscitation system designed for teaching life-saving techniques for infants. Ideal for pediatric advanced life support, nursing, paramedic, and EMT training at every level. Tactile and visual realism combine to provide students with the most realistic training possible. The most comprehensive PALS trainer available, the Infant CRiSis™ Manikin allows practice of 4-lead ECG monitoring, IV therapy, umbilical catheterization, airway management, intraosseous infusion, and CPR – all in one manikin! The unique chest skin with an umbilical cord allows practice of proper techniques in umbilical catheterization, including cutting and clamping. Fluid may be aspirated through the umbilicus, making this training manikin incredibly lifelike. An IV arm and leg allow for realistic practice of pediatric venipuncture. The cephalic and basilic veins are accessible on the IV arm, as well as the dorsal venous arch on the hand; the great saphenous veins are accessible on the IV leg, as well as the dorsal venous arch on the foot. An intraosseous infusion leg demonstrates and simulates the intraosseous infusion procedure. Featuring realistic anatomy and size, the airway management head is ideal for practicing airway management skills on an infant. Includes a hard carrying/storage case.

**Weight: 10 kg**

**Ref.no. R10155/1**



### **Deluxe Infant CRiSis Manikin**

Features the same quality components as the Infant CRiSis Manikin above with the addition of the hand-held Interactive ECG Simulator

**Ref.no. R10155/2**



**R10155/1**



## PDA STAT Training Manikin

Take your ALS training into your students' environment in order to evaluate their knowledge, skill levels, and critical thinking abilities utilizing the applications in a Palm O/S patient simulator. This complete training unit includes PDA STAT manikin, PDA, USB cable, blood pressure cuff, programming, hard carry case, sweat suit, and a supply of replacement parts. This manikin can function in the lab for teaching and in the field for ascertaining diagnostic ability. Student performance records can be transferred to your PC for printout and review of chronological scenario event logs. Use it to challenge your students or determine if you have accomplished your teaching objectives. The manikin features an on-board air compressor, PDA handheld programming that stores your students' performances, spontaneous breathing, pulses, blood pressure, carotid and femoral pulses with adequate chest compressions, normal and emergent heart and lung sounds, 12 pulse points synchronized with the heart, EKG interpretation and cardiac treatment, IV and drug therapy, tension pneumothorax treatment, chest tube insertion with simulated drainage, advanced difficult airway maintenance, and optional trauma treatment with casualty simulation. Also order training cables to match your monitor/defibrillator to eliminate the use of hands-free pads.



R10150

## A full list of features offer challenges for every aspect of emergency care.

### – Advanced Airway Management

New PDA STAT Deluxe Airway Management Head, Tongue edema, Laryngospasm, Cricothyrotomy, Breakout teeth, Designed for LT, ET, LMA, and Combitube

### – ECG

4-lead recognition of 17 rhythms, Defibrillation and auto conversion, Variable rates, Pacing

### – Emergent Lung Sounds (anterior and posterior)

### – Emergent Heart Sounds

### – BP Arm

Independently vary systolic and diastolic pressures, Korotkoff sound changes, Vary the amplitude of the sound

### – IV-Arm

Full venous access from dorsal hand to upper arm, Infuse, withdraw, titrate drug therapy, sharps control, securing, and IM injections, Wide range of motion

### – Pulse Points

12 locations in pairs: carotid, femoral, popliteal, pedal (dorsal arch), radial, brachial (IV arm, antecubital, BP arm biceps pressure point) Distal pulses drop off under 70 mm Hg systolic, Vary according to ECG rhythm and BP settings

### – Bilateral Chest Decompression

Right- or left-sided, partial or complete pneumothorax, Audible air discharge upon proper catheterization

### – Bilateral Chest Tube Insertion

Auxiliary fluid bag allows for simulated discharge with insertion, Practice technique and securing

### – Virtual Capnography and Oximetry

### – Printable Chronological Student Session Reports

### – Scenarios

Easy to establish, Start up library includes samples, Print out for convenience

**Ref.no. R10150**

## Replacement Parts Included

10 neck skins, 6 pneumothorax pads, IV vein kit, 4 IM injection pads, 3 sets of teeth.

Challenge your students with skill proficiency, knowledge demonstration, and critical thinking skills as you put them through belligerent crowds, anxious family members, dangerous environments, and any other true scenario training exercises imaginable with this full-featured patient simulator.

Standard 220V Power cord. 110V version available on request.

## Available Supplies

### Cricothyrotomy Replacement Skin

Package of 10

**Weight: 0.25 kg**

**Ref.no. R10150A**

### Pneumothorax Pads

Package of 4, weight: 0.5 kg

**Ref.no. R10150B**

### IV Replacement Skin.

**Weight: 0.9 kg**

**Ref.no. R10150C**

### IV Replacement Vein Kit.

**Weight: 0.5 kg**

**Ref.no. R10150D**

### Injection Site

Package of 4, weight: 0.2 kg

**Ref.no. R10150E**

## Training Cables for STAT and PDA STAT

Training cables to use with the STAT manikin are available with unique cable ends for use with the following defibrillators: Zoll, Survivalink, Vivalink, and Medtronic Physio Control Quick combo. If your defibrillator uses snap-on patches we also have the adapters you need to eliminate the use of pads. Training cables are not recommended for use with any nonrechargeable battery AED.

This includes FirstSave, HeartStream, and Medtronic Physio control with nonrechargeable lithium batteries.

### Vivalink (Survivalink)

Training Cables

**Weight: 0.5 kg**

**Ref.no. R10150/1**

### Zoll Training Cables

**Weight: 0.1 kg**

**Ref.no. R10150/2**

### Medtronic Physio Quick

Combo Training Cables

**Weight: 0.2 kg**

**Ref.no. R10150/3**

**New**



## 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**

## STAT Baby

Pediatric skills are challenged by this new Simulaid's patient simulator that incorporates a tactile and heft experience, along with multiple features for ALS training. This baby represents a 9-month old and weighs 18 lbs., so handling is lifelike.

### Features include:

LMA & ET capable airway with tongue edema and laryngospasm; nasal intubation; left side chest tube insertion; tension pneumothorax reduction bilaterally; six pulse points (pairs at carotid, femoral, and brachial); IV access in left hand, arm, and foot; I/O access in right leg; and four lead monitoring with defibrillation at 20 joules; Foley cath insertion (female); rectal medication access; and NG tube functions. Set includes IV vein replacement kit, replacement I/O leg bones (12), pneumothorax pads (4), ECG Simulator with defib adapters, pulse bulb, reservoir bags, two sets of replacement arm and leg skins, syringes (2), and a carry bag.

### Features:

- Special new skin enhances tactile involvement
- Weight (18 lbs.) mimics real-life 9-month-old Accessories included:
- 4-lead ECG simulator included
- B/P cuff included

### Training opportunities:

- Advanced intubation head
- Tongue edema
- Laryngospasm
- Accepts LMA and ET, OPA, NPA, LT
- 3 pairs of pulse locations (carotid, brachial, femoral)
- 3 IV sites (left side antecubital, dorsal hand, and saphenous)

- Pedal, right antecubital; also PICC site
- I/O Leg – right side
- ECG monitoring – 4 lead (includes ECG Simulator age group specific)
- Defibrillation (20 joules to 360 joules capable; training cables available to replace hands free pads; conversion feature)
- Chest decompression (bilateral sites; no manikin damage, pad replacement only)
- Chest tube placement (left midaxillary site; fluid return with insertion)
- Urinary catheterization (fluid return with insertion)
- Rectal medication

**Ref.no. R10152**



**R10152**

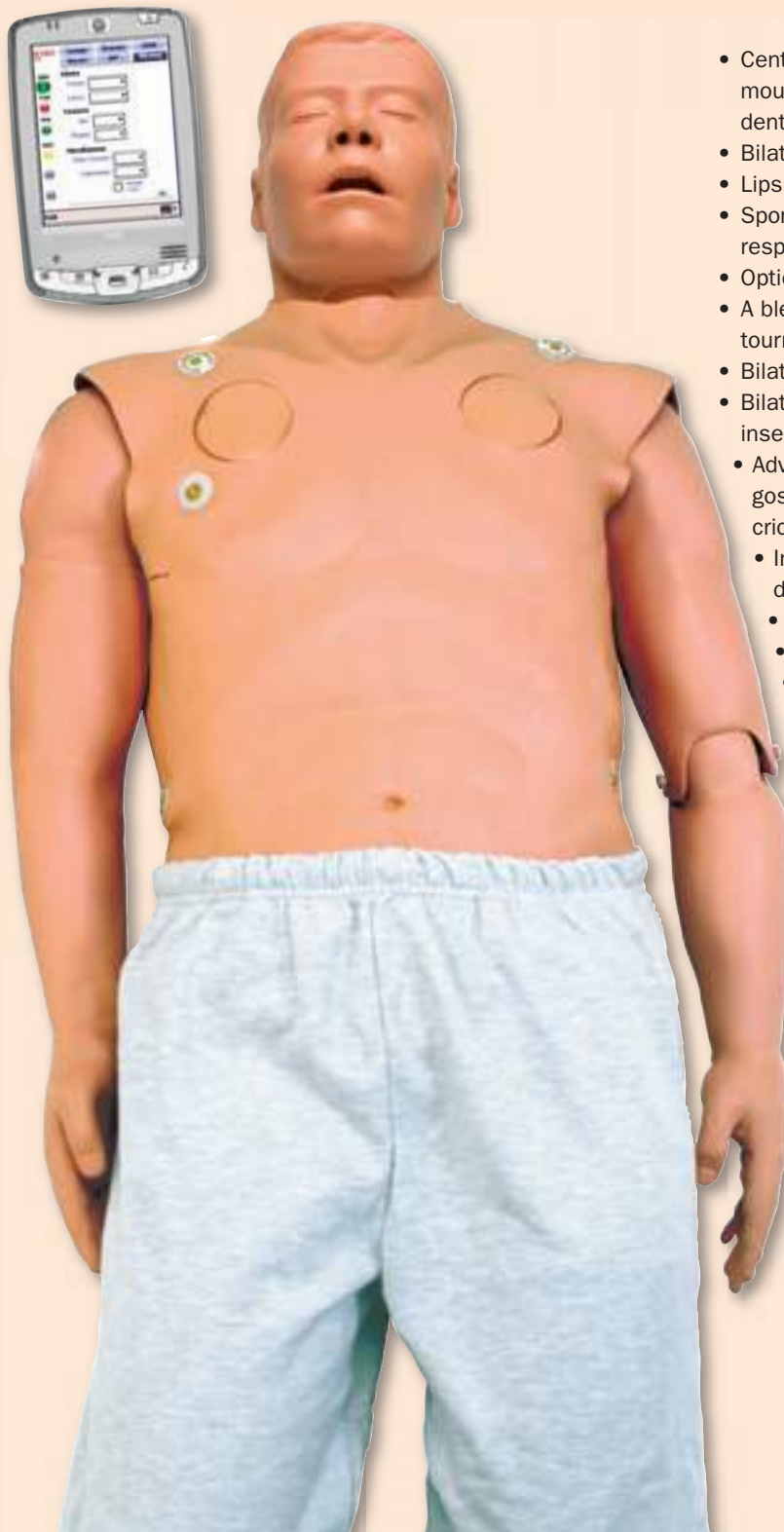


## SMART STAT

SMART STAT is a medically advanced simulator offering you an intelligent choice for your advanced simulation training needs. The wireless patient simulator offers simplicity of operation in a highly advanced trainer for conducting training in many levels of medical skills, including very basic EMS and nursing skills and progressing to advanced training in trauma, cardiac, and medical disease conditions.

The applications include physician training, nursing school training, university teaching hospital training, hospital and clinic training programs, paramedic training, emergency medical response team training, military battle field training, disaster response training, and a multitude of other medical training applications. The portable SMART STAT patient simulator operates wirelessly and can be used indoors and outdoors in many environments. SMART STAT has more advanced features than many competing simulators, but is much easier to use and requires far less training to become proficient in operation.

All of the simulator's features and functions can be operated by the easy-to-use Microsoft® Windows®-based, hand-held, Pocket PC (PPC). The Pocket PC allows recording of student's attempts at assessment and treatment of the manikin's physiological presentation. The device has the capability to pull up any one of many scenarios for the purpose of challenging students' abilities and testing their knowledge and proficiency. Records can easily be Active Sync'd™ to a PC for storing student records.



- Central Nervous System Signs: tears, runny nose, foaming mouth, and pupils that react to light and can be set independently
- Bilateral Fingernail Perfusion States: cyanotic or flushed
- Lips become cyanotic or flushed in degrees of perfusion crisis
- Spontaneous chest rise in association with disease states and respiratory rates
- Optional libraries of sounds offered for purchase
- A bleeding leg wound for the purpose of trauma management, tourniquet application, and damage realism
- Bilateral reduction sites for Tension Pneumothorax
- Bilateral chest tube placement sites with fluid discharge upon insertion
- Advanced airway features including tongue edema, laryngospasm, upper teeth that break out and are replaceable, and cricothyrotomy with replacement neck skins
- Interchangeable genitalia for urinary catheterization with fluid discharge
- Internal reservoirs for body fluid storage
- Removable lower right leg for amputation exercises
- Range of motion characteristics
- Pericardiocentesis
- Optional lower right leg for I/O procedures
- Hard carry case with wheels for ease in moving
- Comes assembled; connecting the knees required
- Sweat suit included with hooded zippered shirt
- Sets of replacement items includes neck skins, IV veins, Pneumothorax pads, IM injection pads, I/O pads, and bones (chest only)
- Voice sounds generated internally
- Battery cell pack
- Although not necessary, the manikin and PPC can be connected via USB cable (included)
- 183cm (6-ft.) manikin; 117cm (46") chest, 81cm (32") inseam, 101cm (40") waist, 66cm (26") head circumference, 40cm (18 1/2") neck, men's size 48 (13) shoe

**Assessment Features:**

- Bilateral arm blood pressure readings with independent systolic and diastolic settings to within 2 mmHG; auscultatory gap option, amplitude settings of antecubital sounds for auscultation
- Pulse Points: continually active bilateral carotid, femoral, brachial, radial, popliteal, and pedal pulses
- Eight distal pulses can be individually eliminated to show perfusion loss
- Radial and pedal pulses shut off when B/P systolic drops below 70 mmHG
- Heart and Lung Sound Sites: six anterior, sound specific, lung sites for auscultation of lung sounds; four posterior lung sound sites
- Four heart sound locations specific to heart sound library choices
- CO2 discharge to activate colorimetric devices to determine gas exchange in the lungs
- Injection Sites and Internal Blood Circulation:  
Bilateral IV, phlebotomy, and infusion through major vein systems on dorsal side of hands, lower arms, and antecubitally with on-board blood supply with circulation present upon demand
- Bilateral deltoid IM injection sites
- Right thigh IM injection site
- Right legs for:
  - a) I/O injection procedures
  - b) trauma leg with bleeding and tourniquet capabilities
- I/O manubrium for FAST1™ insertion and removal
- Cardiac Monitoring with Defibrillation: five-lead monitoring with full defibrillation and pacing features; 17 rhythms with rate adjustment, independent PVCs, PEA, and automatic conversion to a preset rhythm upon successful defibrillation; and total joule protocol discharge
- CPR and CPR Recording: CPR compression recording and reporting considering depth, rate and hand pressure, carotid pulse response, and ECG artifact with adequate compression
- Palpable bone structure and intercostals spaces

**Pocket PC Features:**

- Pocket PC or Tablet with Windows® O/S
- Bluetooth capable
- Installation disc included
- Capable of being connected to the manikin with USB cable
- Simple set of screen configurations makes intuitive use by the faculty
- No learning curve cost to learn how to run the manikin – 15 minutes on the PDA does it
- Runs up to six manikins at a time
- Controls student sessions and scenario progress

**Computer Requirements and Functions:**

- Any version of Microsoft® Windows® O/S above 2000
- Utilized by the Manikin Data Editor to initialize student records, to maintain recordings of student sessions, and to create, edit, export, or remove scenarios; installation disc included
- You do not need a computer to run the manikin

**Ref.no. R11150**



## 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.

**Version large body, 183 cm, 91 kg**

Shipping weight: 119 kg

**Ref.no. R10160**

**Version large body, 183 cm, 84 kg**

Shipping weight: 88 kg

**Ref.no. R10161**

**Version large body, 183 cm, 79 kg**

Shipping weight: 84 kg

**Ref.no. R10050**

**Version large body, 183 cm, 75 kg**

Shipping weight: 79 kg

**Ref.no. R10049**

**Version large body, 183 cm, 56 kg**

Shipping weight: 66 kg

**Ref.no. R10162**

**Version large body, 183 cm, 48 kg**

Shipping weight: 56 kg

**Ref.no. R10163**

**Version large body, 183 cm, 25 kg**

Shipping weight: 34 kg

**Ref.no. R10164**

**Version normal body, 165 cm, 75 kg**

Shipping weight: 84 kg

**Ref.no. R10165**

**Version normal body, 165 cm, 66 kg**

Shipping weight: 75 kg

**Ref.no. R10166**

**Version normal body, 165 cm, 48 kg**

Shipping weight: 56 kg

**Ref.no. R10048**

**Version normal body, 165 cm, 25 kg**

Shipping weight: 30 kg

**Ref.no R10047**



## Rescue Child 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.

### Rescue Jennifer

**Size: 122 cm**

**Weight: 7.3 kg**

**Ref.no. R10335**

### Rescue Jennifer

**Size: 122 cm**

**Weight: 17.2 kg**

**Ref.no. R10340**





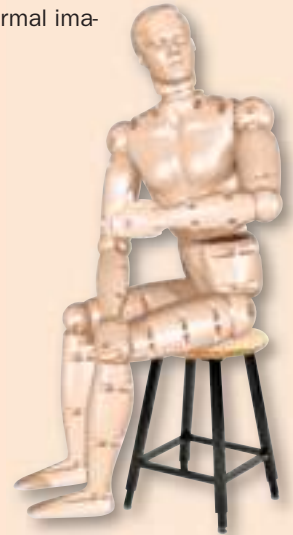
**R10168**

### **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. Watch for options to be released during the coming year. Included in these options will be thermal imaging-capable pieces.

**Weight :17 kg**

**Ref.no. R10168**



**R12106**

### **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**



**R12105**

### **Flexible Rescue Randy**

This regular-sized Rescue Randy unit has been developed especially for the aero-space 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**



**R10169**

### **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. Manikin not included.

**Weight without water 5 kg**

**Ref.no. R10169**

### **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**



**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)

### Adult Water Rescue Manikin.

**Size:** 165 x 56 x 23 kg

**Weight:** 20 kg

**Ref.no.** R10092

### 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

### Adolescent Water Rescue Manikin.

**Size:** 125 x 41 x 23 cm

**Weight:** 9 kg

**Ref.no.** R12107

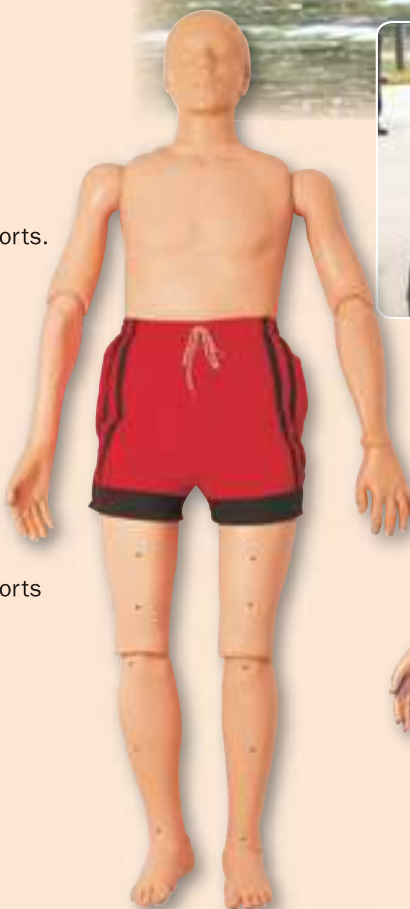
### Adolescent CPR Water Rescue Manikin.

Includes 5 mouth/nosepieces, 5 airway systems, and shorts

**Size:** 125 x 41 x 23 cm

**Weight:** 10 kg

**Ref.no.** R12107/1



R10092



R12107

## 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.

### Rescue Cathy – Newborn Size.

**Size:** 66 x 20 x 20 cm

**Water filled weight:** 3 kg

**Ref.no.** R10320

### Rescue Billy – 6 to 9-Month-Old.

**Size:** 66 x 20 x 20 cm

**Water filled weight:** 5.5 kg

**Ref.no.** R10325

### Rescue Timmy – 3-Year-Old Child.

**Size:** 86 x 28 x 18 cm

**Water filled weight:** 9 kg

**Ref.no.** R10330



R10320



R10325



R10330





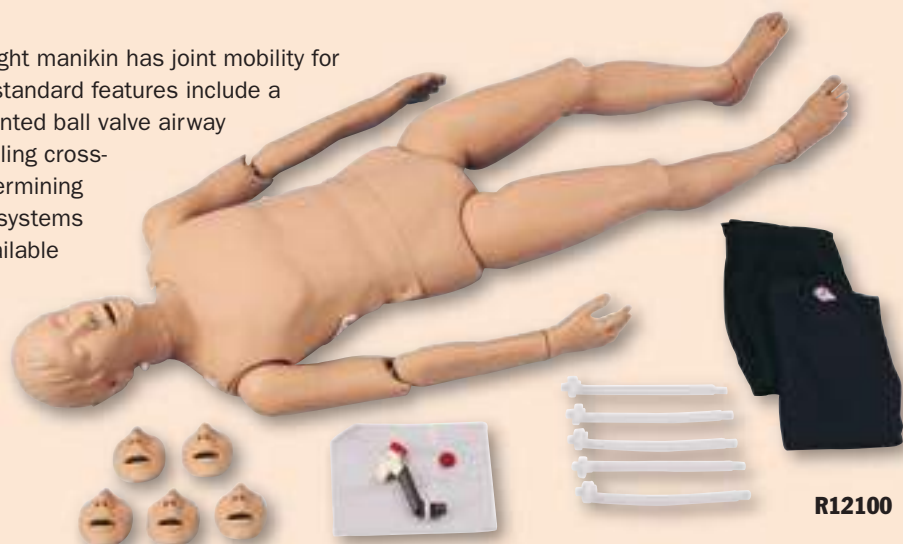
### Full-Body CPR/Trauma Manikin

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 cross-contamination, 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**



**R12100**

### 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 202 for description

**Ref.no. R10046**



### Extinguishing doll

This manikin is especially designed for practice with a fire-extinguisher or a fire blanket. The doll can also be used for flashover training in a fire simulator. It can be carried with the rescue hold and has a pocket for placement of a sound or heat emitting device (not included).

**Size: 170 cm**

**Weight: 20 kg**

**Ref.no. R18680**

#### Available options:

##### Stand

For upright positioning of the doll

**Ref.no. R18680/1**



### Rescue Doll

Economic priced rescue doll with full movability and natural weight distribution. The perfect doll when the training situation is to risky or to uncomfortable for a volunteer. The manikin can be used in the same way as a real human and will take the same stress as a human would do (for extreme training situations where the manikin might fall down several meters, ran over or might be dragged on the floor please use the drop safe manikin). The doll has a pocket in it's head where you may place a sound or heat emitting device (not included).

**Ref.no. R18000** Rescue Doll, mantle only, fill yourself

**Ref.no. R18010** Rescue Doll, 170 cm, 30 kg

**Ref.no. R18020** Rescue Doll, 170 cm, 50 kg

**Ref.no. R18030** Rescue Doll, 170 cm, 70 kg

**Ref.no. R18040** Rescue Doll, adipose, 185 cm, 150 kg

### Rescue Doll, drop safe

Sturdy rescue manikin, fully movable and with natural weight distribution. Designed for daily use in rescue training, perfect for use in breathing protection training centres. The doll is drop safe to a height of about 60', can be run over with a weight of about 10 tons. It can be carried with the normal rescue hold. The doll has a pocket in its head to allow placement of a sound or heat emitting device (not included).

**Ref.no. R18050** Rescue doll, drop safe, 170 cm, 30 kg

**Ref.no. R18060** Rescue doll, drop safe, 170 cm, 50 kg

**Ref.no. R18070** Rescue doll, drop safe, 170 cm, 70 kg

**Ref.no. R18080** Rescue doll, drop safe, 170 cm, 80 kg



### Rescue Doll, heat resistant

Sturdy rescue manikin, fully movable and with natural weight distribution. This doll can be used in a heated environment with temperatures of up to 650°C (1200°F). Designed for daily use in rescue training, perfect for use in fire simulators or environments where victims have to be found and rescued in realistic situation. The manikin can be carried with the normal rescue hold. The doll has a pocket in its head to allow placement of a sound or heat emitting device (not included).

**Rescue Doll, heat resistant, 170 cm, 50 kg**

**Ref.no. R18610**

**Rescue Doll, heat resistant, 170 cm, 70 kg**

**Ref.no. R18620**

**Rescue Doll, heat resistant, 170 cm, 80 kg**

**Ref.no. R18630**





R10042

### 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



R10043

### 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



R10045

### 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: 3xblood simulation, 2xcoagulant 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

### 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. Makeup 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



### Moulage teaching video

English language

**Ref.no.** MV100



R10315



## 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: 5 x blood simulation, 3 x 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**



## Forensic Science Wound Simulation Kit

basic trauma evidence-gathering unit contains a series of wounds created specifically for teaching crime scene analysis and forensic scene reconstruction. The details in the wounds are designed to determine type of weapon, direction of force, and other related details. This innovative kit contains carefully sculpted models of injuries taken from actual victim's wounds and reviewed by forensic education professionals insuring real scene representations of trauma. From simple puncture wounds associated with sharp instrument trauma to firearms entry and exit wounds, this kit is critical in studying the methodology of crime scene reconstruction based on wound demographics. The kit includes also moulage wax, coagulant blood, and a selection of makeup for bruising, blanching, and lividity. Comes with carry case.

### Wounds Included:

Petechiae; Ecchymosis; Pattern Ligature; Slash; Shotgun close range; Shotgun; Intermediate range; Intermediate range round; Intermediate range flake; Exit gunshot; Contact gunshot contact handgun; Contact wound; Screwdriver; Bite partial; Bite complete; Hesitation; Single-edge knife; Double-edge knife; Blunt bat; Bunny ears exit wound; Exit wound ice pick; Compound fracture humerus; Foreign body protrusion; Large laceration; Medium laceration large compound fracture; 2nd degree burn

**Ref.no. R10300**



**R10300**

## Forensic Science Wounds

These wounds are the special stick-on wounds found in the Forensic Science Wound Simulation Kit. You receive the 18 wounds developed for forensic science. Use these to augment your existing casualty simulation kit.

### Wounds Included:

Petechiae; Ecchymosis; Pattern Ligature; Slash; Shotgun close range; Shotgun; Intermediate range; Intermediate range round; Intermediate range flake; Exit gunshot; Contact gunshot contact handgun; Contact wound; Screwdriver; Bite partial; Bite complete; Hesitation; Single-edge knife; Double-edge knife; Blunt bat; Bunny ears exit wound; Exit wound ice pick.

**Ref.no. R10310**



**R10310**

**New**



## Xtreme Trauma Wound Kit

Xtreme Trauma Wound Kit contains 12 lifelike look and feel wounds plus all the accessories you need for preparing your victims for training. Wounds can be used on manikins or humans. Many of the wounds can be made to bleed. Wounds are easily cleaned and can be reused many times. Wounds include face, lower arm, chest, eyes, hands, leg, ankle, etc.

**The Kit contains:** Tongue Depressor/spatula Combo, red, white, brown, blue Grease Paint, Casualty Simulation Wax, Blood Powder, Coagulant Blood, Methyl Cellulose for Blood, Broken Glass, Spirit Gum, Broken Lower Arm, Chest Wound, Eye & Face Wound, Hand Wound Large, Hand Wound Small, Broken Upper Arm, Jaw Wound, Head Wound, Burned Face, Lower Leg Wound, Upper Leg Wound, Broken Ankle.

**Ref.no. R10317**

**New**



## 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**





**R10025**



### 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**



**R10024**

### 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**

### 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 Dr. Sarah Koenig, associate professor, surgical skills lab, dept. for general and visceral surgery, University Medicine Goettingen. The trainer consists of the pad holder and one suture pad size 125 x 145mm.

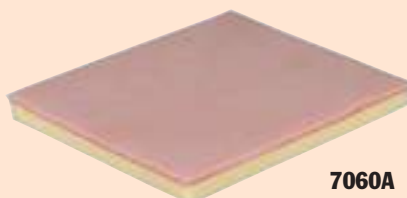
**Ref.no. 7060**

**Replacement skin pad**  
**Replacement Pad holder**

**Ref.no. 7060A**  
**Ref.no. 7060B**



**7060**



**7060A**



**7060B**





### Suture trainer set

This universal set gives the opportunity to practice suturing procedures at any place at any time. At the skills lab, at the hospital or at home; whenever the student has time to practice this set gives him the opportunity to improve his skills. Additional to the different trainers the set includes a needle holder, suture needles, a pair of scissors, suture thread and a pair of tweezers.

#### The suture trainers are:

- Abdominal trainer (1 support, 2 Skin pads)
- Blood vessel trainer (5 narrow tubes)
- Intestine trainer (5 wide tubes, 1 support)
- Limbs set (2 narrow skins, 1 support)

The wounds for suturing can be placed by the student after his requirements. This set should be standard in every skills lab. But also doctors and students may take advantage of the set in personal use. Improve your skills by practicing continuously. Supplied with storage box.

**Ref.no. R16040**



### 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 measures 15 x 10 x 4 cm**

**Weight 1.25 kg**

**Ref.no. R10030**



## Suture Evaluation Simulator

This Simulator makes it easy for you to evaluate suturing. Simple interrupted skin suturing can be evaluated quantitatively by operation time, tension end force added to the skin, evenness of stitch placement as well as that of each stitch and the degree of the wound closure. Objective evaluation not only facilitates assessing trainees' achievement degree. By showing progress made along with repeated trials, it also encourages each trainee and promotes more effective learning. True-to-life needle tip resistance, compact and space saving design.

### The Simulator has three modes:

Evaluation mode: self learning with evaluation  
Learning mode: watch demonstration movie  
Examination mode: students' achievement examination

### The Simulator evaluates the performance considering:

- Time
- Force on the tissue
- Suture tension
- Stitches spacing
- Equidistance (width)
- Wound Dehiscence

### The Set includes:

- Simulated skin 40 pcs
- Skin suturing unit
- USB Camera
- Software (CD)
- Carrying case

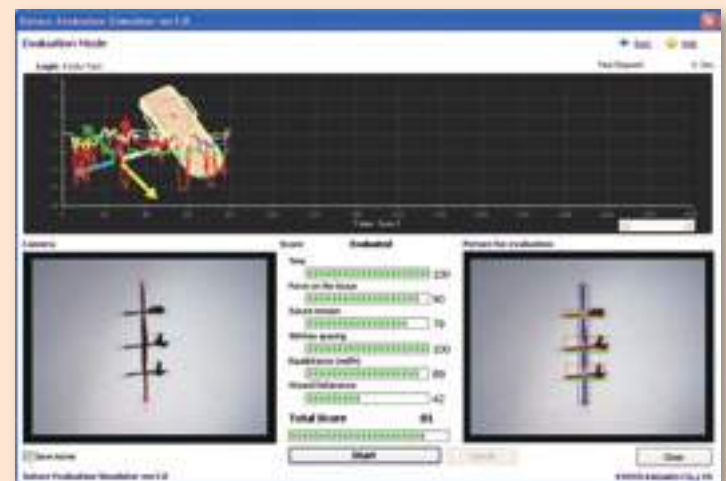
Can be used with any PC, a pre-installed Laptop computer can be ordered if required.

### Suture Evaluation Simulator

**Ref.no. R16045**

**Laptop PC with pre-installed Software (optional)**

**Ref.no. R16045/1**

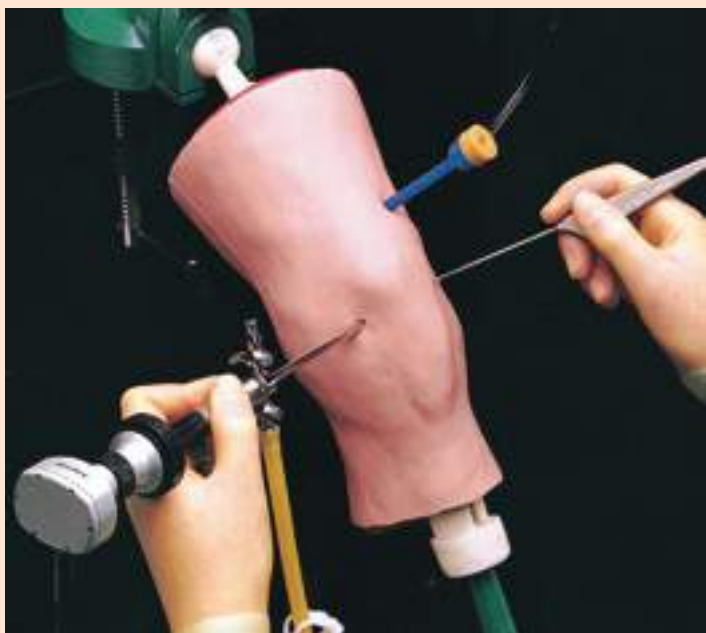


### Arthroscopy-Knee

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's 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**



### 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**







**R10083**

## **Surgery and Laparoscopy Torso**

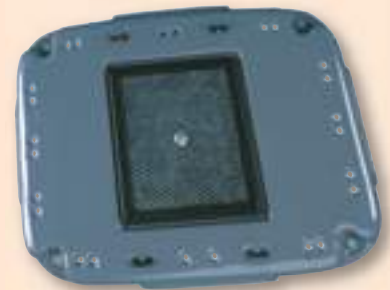
This trainer is aimed at all levels of surgeons in training whose surgical skills necessitate extra practise. Once set up, the torso can self-educate using his/her preferred surgical laparoscopic instrumentation for a variety of techniques.

### **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
- Can be easily cleaned by flushing out through a large airtight drain plug
- 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**



**R10083/1**

### **Accessories:**

#### **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**



## **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**

## **Neoprene Skin**

2 replacement skins for Laparoscopy Trainer **R10083**

**Ref.no. R10083/3**



**R10083/4**

## **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 × 23 × 9 cm**

**Ref.no. R 10083/4**

## **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 fluid-filled 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**



**R10083/5**

**R10083/6**

## 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**



**R10086**

## 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 organizers 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**



**R10093**

## 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**



**R10094**

## 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**





LM44

### Coloscopy-practice model

A true to life colon in a replica of a torso with a cover allows practice in coloscopy. The special synthetic material provides an extremely realistic practice experience, both optically and in handling the endoscope. Ideal for learning how to deal with the endoscope and as a demonstration aid for device presentation. Supplied in a transport case.

**Ref.no. LM44**



1. rectum



2. sigmoid colon



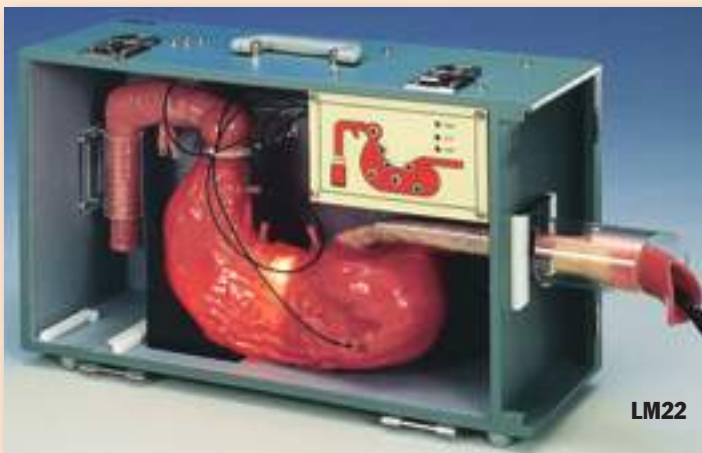
3. descending colon



4. transverse colon



5. caecum



LM22

### ERCP training model with functional display

Representation of the human upper digestive tract (oesophagus, stomach, duodenum and Vater's papilla) for examination with an optical fibre endoscope. This model offers the possibility of practising all techniques outside a human patient. The anatomical structures correspond to the natural conditions. In addition, modifications such as oesophageal varices, duodenal ulcer, gastric ulcer, a polyp and a malignant tumour at an early stage are visible. Optical sensors check whether all the main structures have been examined. Supplied in a storage case.

**Ref.no. LM22**

### Accessories:

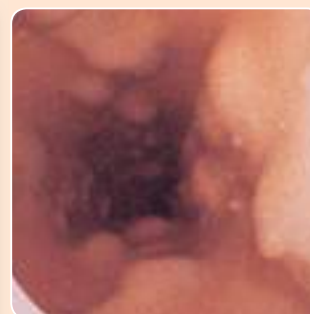
larynx attachment

**Ref.no. LM22.1**

### ERCP training model without functional display

Same model as LM22, but without indication function.

**Ref.no. LM14**



Oesophageal varices



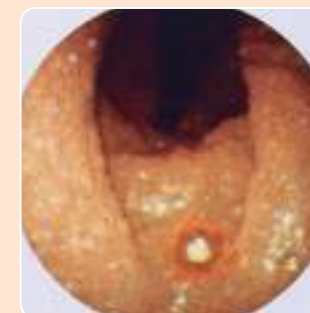
Polyp



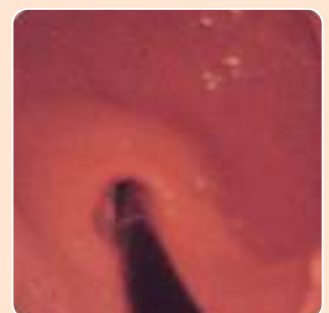
Vater's papilla



Malignant tumour at an early stage



Gastric ulcer



Cardia





**R16690**



### **Colonoscopy training model**

Soft and floppy colon with airtight structure allows realistic colonoscope insertion and withdrawal training with air insufflation/suction functions and maneuver techniques which reduce patients' pain and discomfort in the examination procedures.

Human colons are organs which move in our abdomen and change their shapes to accommodate contents. The training model facilitates learning how to obtain the best view while handling the organ by the colonoscope.

In addition to such changing state of each colon, there are significant varieties in each individual's colon, some are shorter and simpler and others are redundant and more complicated. This innovative training model is designed to allow various colons' placement, facilitating trainees to acquire the skills step by step to achieve higher competence.

#### **Features:**

1. The soft, floppy colon tube which shows realistic response to colonoscope manipulation, facilitating acquire skills in preventing "loops" and straightening them to reach safely to the caecum.
2. The colon-rectum tube can be set airtight to allow training in insufflation and suction by the colonoscope.
3. The anal sphincter can be tightened and relaxed by the manual pump to meet the training's requirements.
4. The abdomen manikin is designed to take three positions, left lateral, right lateral and supine, allowing the patient position change in the procedures.
5. 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.
6. Manual abdominal compression can be performed by using abdomen skin cover.
7. 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.
8. The detachable colon tube helps easy cleaning.
9. Colon tube section can be easily replaced.

**Size: 47 x 31 x 21.5 cm**

**Weight: 6.5 kg**

**Ref.no. R16690**

### 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 (e.g. B<sub>ai</sub>). 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 human-like 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**

**New**



### Ureteroscopic Scope Trainer - Endourological skills-training model

The ureteroscopic skills trainer is designed for multiple uses. The distensible bladder with an anatomically correct ureterovesical junction will enable ease of access with the ureteroscope to be assessed. The reproduction of the lumbar lordosis enables the performance of rigid ureteroscopes to be evaluated along with devices for stone retrieval and disintegration.

The carefully designed collecting system containing both stones and a papillary tumour together with fluoroscopic properties of the model enables the performance and manoeuvrability of flexible ureteroscopes to be assessed and demonstrated. In addition, the placement of a nephroscope through a percutaneous track can be a very powerful tool for demonstrating the properties of a flexible ureteroscope to potential customers.

**Ref.no. R30001**

**New**



**R30001**

### Advanced Scope Trainer with re-chargeable stones

- Demonstration model for the properties of a flexible ureteroscope

The Advanced Scope Trainer is identical to the Scope Trainer internally but utilises a clear acrylic casing more suited to the actual demonstration of the properties of a flexible ureteroscope to potential customers. The Advanced Scope Trainer provides the operative with the ability to re-charge each kidney with stones via the two external ports when the existing stones are removed or destroyed. The advanced ureteroscopy trainer has been designed to meet the needs of basic and advanced training in rigid and flexible ureteroscopy. It incorporates features such as distensible bladder, a realistic ureteric orifice and a ureter, which follows the same anatomical course as the adult male, thus providing a realistic alternative to training in patients, at the same time allowing the trainee ureteroscopist to develop a feel for the difficulties that may be encountered during procedures in patients.

**Ref.no. R30002**

**New**



**R30002**



### 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**



**R17000**

**New**



**R17001**

### 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**

**New**



**R17002**

### 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**



### 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**

**R17000A**

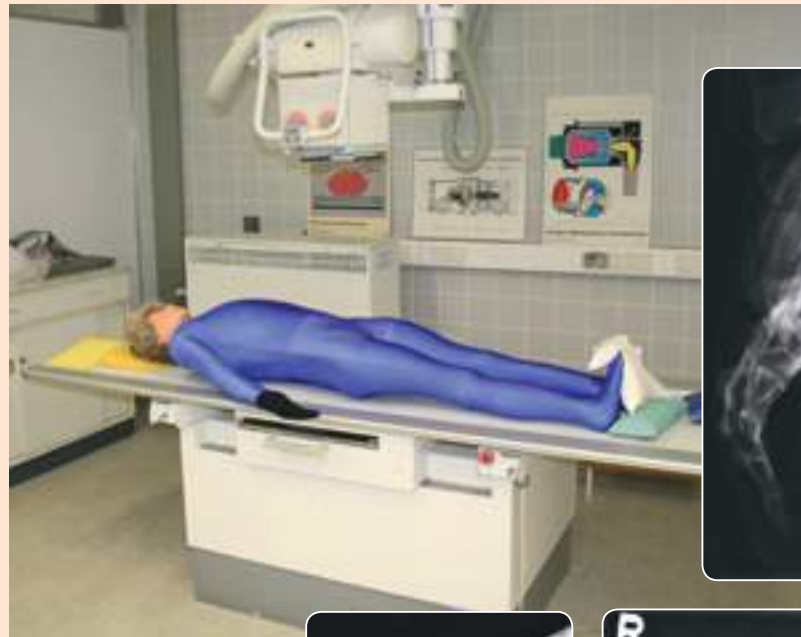


## Full body X-Ray Phantom

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.**

**Ref.no. 7200**



**7200**



## 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.

**Ref.no. 7201**

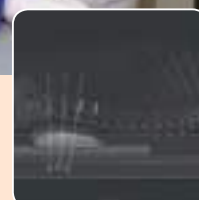
**Accessoires:**

**Transport and storage case**

**Ref.no. 7208**



**7201**



**Info**

We maintain and repair  
your x-ray phantoms fast  
and economic!

## 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 colour to hide the inner structures.

All phantoms are hand made and unique. They may differ in size and shape. Due to production technologie there may be discolouring 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.

### Info

All models embedded in transparent plastic



### X-Ray Phantom Hand

Hand with wrist

Transparent Ref.no. 7210

Opaque Ref.no. 7215



### X-Ray Phantom Lower Arm

Hand with forearm and elbow

Transparent Ref.no. 7220

Opaque Ref.no. 7225



### X-Ray Phantom Foot

Foot Skeleton with start of lower leg

Transparent Ref.no. 7230

Opaque Ref.no. 7235



### X-Ray Phantom Knee

Part of upper- and lower leg and patella

Transparent Ref.no. 7250

Opaque Ref.no. 7255



## Info

All models embedded in transparent plastic



7260

### X-Ray Phantom Elbow

Part of upper and lower arm

Transparent Ref.no. 7260

Opaque Ref.no. 7265



7270

### X-Ray Phantom Head

Skull with lower Jaw

Transparent Ref.no. 7270

Opaque Ref.no. 7275



7290

### X-Ray Phantom Spine

24 vertebrae and sacrum

Transparent Ref.no. 7290

Opaque Ref.no. 7295



7240

### X-Ray Phantom Hip

Pelvis with 2 lumbar vertebrae and femur stumps.

Ref.no. 7240



7280 + 7282

### X-Ray Phantom Head

Skull with lower Jaw and 5 cervical vertebrae

Transparent Ref.no. 7280

Opaque Ref.no. 7285

### Dental X-ray head

Skull with lower jaw and 5 cervical vertebrae, jaw slightly open. With thread for attaching a tripod. Perfect for customer education or product demonstration.

With normal dentures

Ref.no. 7282

With dental repairs

Ref.no. 7282/1





**New**



### 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

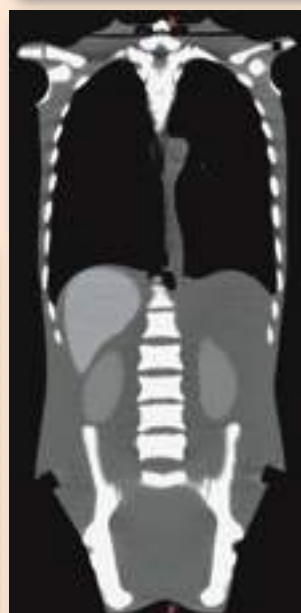
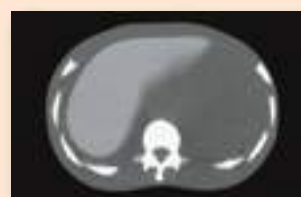
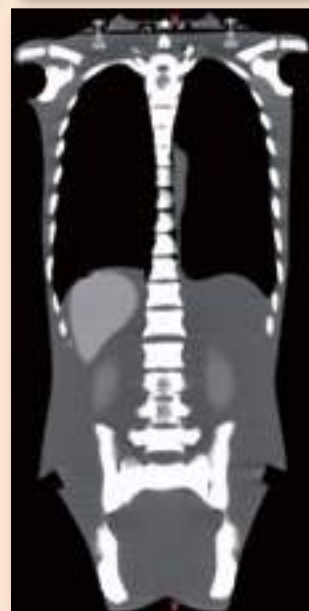
#### Phantom materials:

- Radiology absorption and Hounsfield number approximate to human body.

**Phantom size: approx. 165 cm height**

**Phantom weight: approx. 50 kg**

**Ref.no. R16900**



## 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.

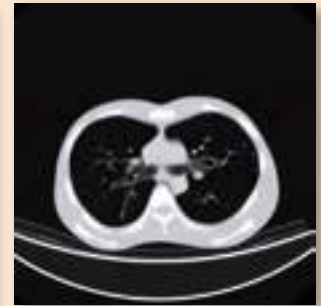
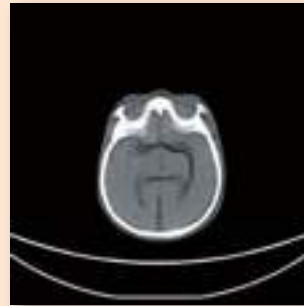
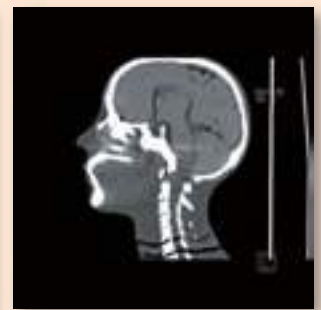
### Internal Organs:

- Head and Trunk
- Synthetic skull
- Cervical vertebrae
- Brain
- Vertebrae
- Clavicles
- Ribs
- Sternum
- Scapula
- Coxal bones
- Femurs
- Lungs with pulmonary vessels
- Trachea
- liver with portal and hepatic veins
- Pancreas
- Kidneys
- Gallbladder
- Spleen
- Aorta
- Vena Cava
- Ureter
- Urinary bladder
- Prostate
- Rectum
- Sigmoid Colon

### Phantom materials:

Radiology absorption and Hounsfield number approximate to human body.

**Ref.no. R16950**







**R16511**



**R16510**

### **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**



### **Chest Plates for R16510**

For simulation of an overweight patient

**Ref.no. R16510/1**



**R16510/1**



**R16513**

### **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**





**R16512**

### 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**



**V101**

### Schematic cross section through abdomen (T12)

This life size model shows a typical cross sectional view through the abdomen at the level of the T12 vertebra. The stomach, liver, kidney, spleen and other abdomen structures are sectioned horizontally.

Mounted on board

**Size: 40 x 26 x 8 cm**

**Weight: approx 1.7 kg**

**Ref.no. V101**



**V102**

### Schematic cross section through thorax (T8)

This life size model shows a cross sectional view through the thorax at the level of the T8 vertebra. In this model it is possible to observe the horizontally sectioned heart, lungs, veins, arteries, and other thoracic structures. Mounted on board

**Size: 40 x 26 x 6 cm**

**Weight: approx 1.6 kg**

**Ref.no. V102**



**V109**

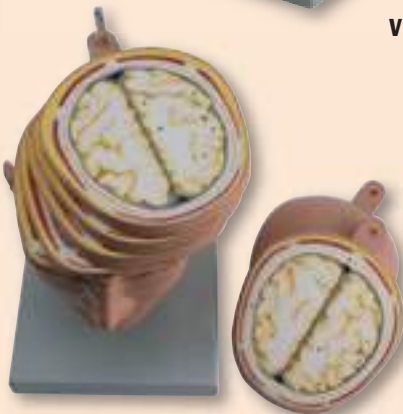
### Disc Head Model

This life-size head model is sliced horizontally into 12 pieces, giving an idea of how computer tomography and magnetic resonance work. Each slice can be rotated and removed for closer examination of its anatomical detail, which is reproduced with great accuracy. All structures including muscles, nerves, brain gyri and sulci are numbered and identified on the accompanying multilingual key card. Mounted on base.

**Size: 25 x 18 x 24 cm**

**Weight: approx 3kg**

**Ref.no. V109**



### 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**



**R16532**



**R16531**

### Radiation-Therapy-Phantoms

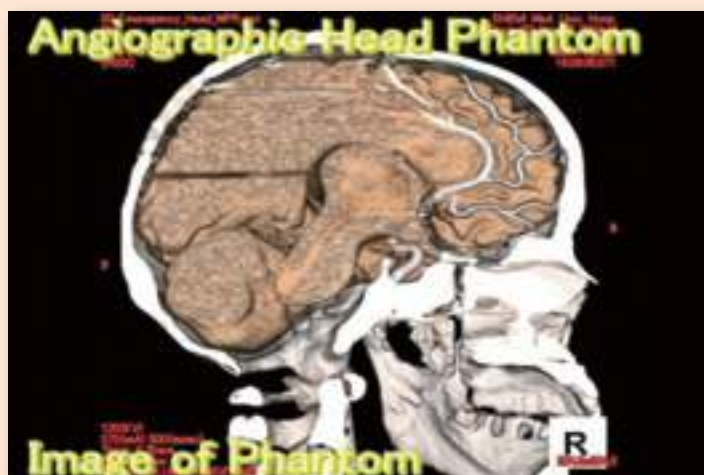
This phantoms are developed for the treatment planning and machine adjustment in the radiation therapy. The body consists of 3 cm slices with a 3 x 3 cm hole matrix for inserting glass dosimeters. The model material has a natural radioparency allowing the correct adjustment of the machines. This makes 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**

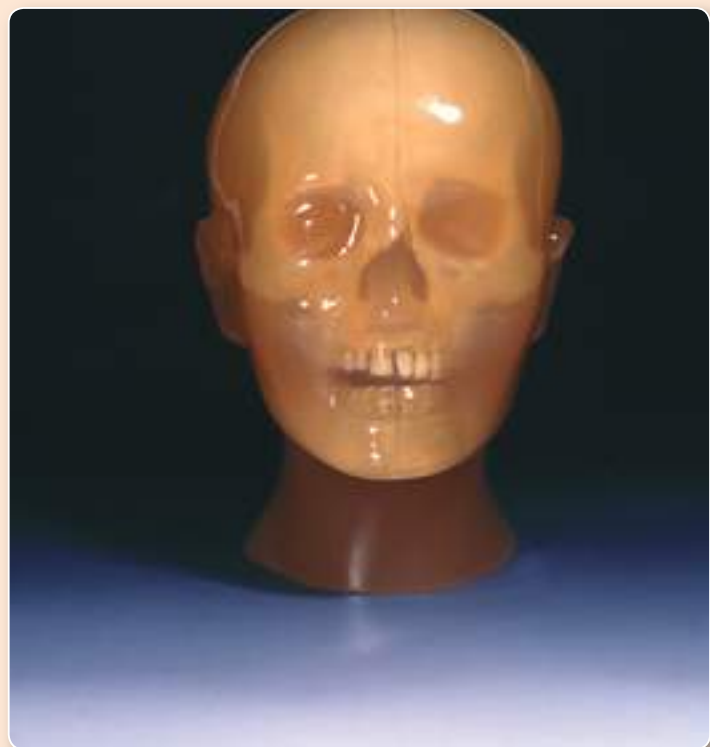
### Angiographic head model

This model consists of a real 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**



R16520





## Coronary-Simulator

Heart catheterisation Simulator consisting of plastic base with pump and electronics as well as Silicone Coronary model consisting of ventricle with coronary arteries, aortic valve, aortic arch with branches, descend aorta and femoral artery.

### The model has the following features:

- Life size reproduction of the coronary arteries
- All vessels are elastic and transparent
- Fluid filled, with pulsatile or continuous flow
- Several stenoses included
- Perfect for training of interventional procedures
- Can be used for visual as well as for radiological supported catheter positioning
- Easy to use, only power supply needed
- Integrated basin for clean working
- Vessel part can be replaced easy and fast if needed
- Compact construction, perfect for mobile use

**Ref.no. R17100**



**R17100**

### Available supplies:

Replacement vessels

**Ref.no. R17100A**



**R30350**

## Femoral Access Trainer

Venous and arterial femoral access skills trainer

Adult lower torso reproduction with realistic anatomical landmarks and infusible venous and arterial systems designed for teaching femoral-access procedures.

- Realistic palpable landmarks
- Pubic symphysis
- Inguinal ligament
- Anterior superior iliac spine
- Manually generated arterial pulse
- Blood flashback from venous and arterial systems

### Includes:

Lower torso, 5 syringes, 3 IV Bags with hoses and clamps, blood concentrate - 1 blue, 1 red, manikin lubricant, carry case and directions for use.

**Ref.no. R30350**

**New**



## 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.

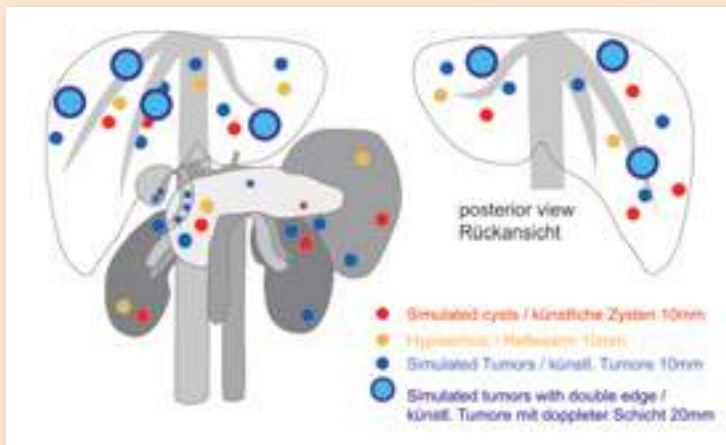
**Size: 28 x 25 x 18 cm, weight 12 kg**

**Ultrasound model**

**Ref.no. R16560**

**Set Ultrasound model and anatomical model**

**Ref.no. R16560/1**



**R16560**



**R16570**

## 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**

## 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**

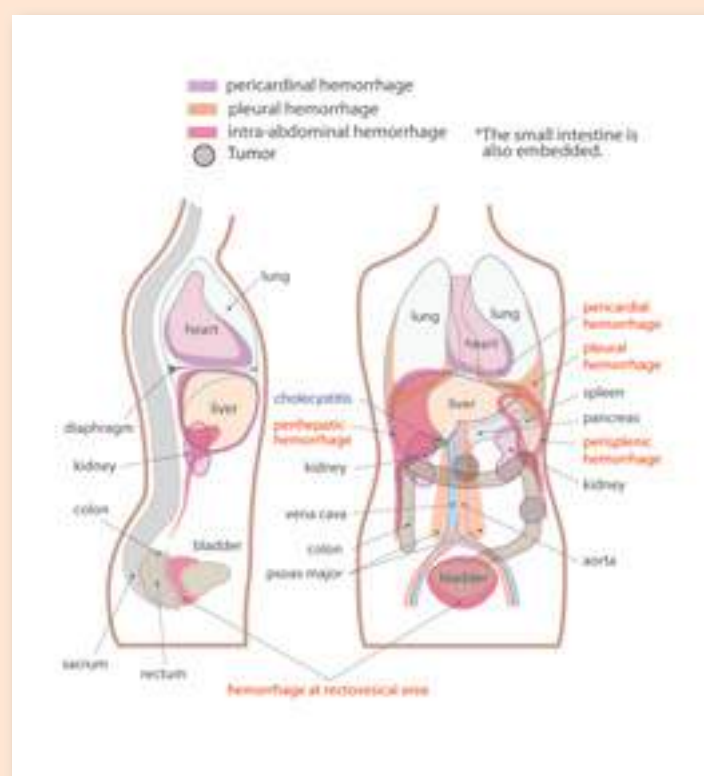
**Ref.no. R16580**



**R16580**



**New**



## 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 intra-abdominal 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
2. Right upper abdominal bleeding
3. Left upper abdominal bleeding
4. Pelvic bleeding
5. Pleural bleeding
6. Peri-hepatic bleeding
7. Abdominal aortic aneurysm

The model is supplied with carry case and tutorial DVD.

**Size: 61 x 30 x 30 cm, weight about 31 kg**

**Ref.no. R16590**





## 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.

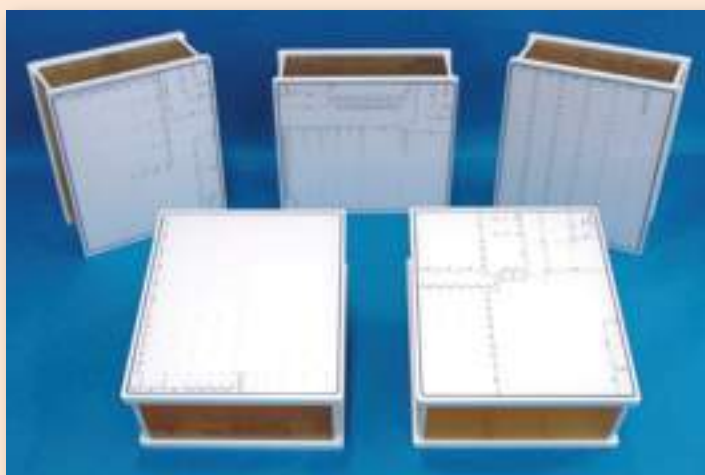
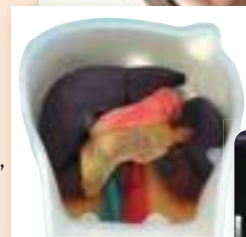
### The phantom includes:

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**



**R16544**

### 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**

### 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. R15546**

## Ultrasound phantom for Quality control

### 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**

### 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**

### 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**



**BPB170**

### **Breast Ultrasound Phantom**

This ultrasound phantom is excellent for hands-on ultrasound training for guiding fine needle biopsies and cyst aspirations. Develop your ultrasound skills while targeting multiple focal masses with a variety of ultrasound imaging characteristics. Contains a variety of mass sizes for training evolution; masses from 4–10 mm. The masses are present in both the central breast tissue as well as the Tail of Spence.

**Size: 18x13x5cm, Weight: 0.6 kg**

**Ref.no. BPB170**



**BPOB1200**

### **Intrauterine Pregnancy Model for Endovaginal Ultrasound Training**

Learn to scan, identify normal pelvic structures and diagnose pathology on realistic ultrasound training models. And do it when you want, where you want. By accurately mimicking the feel and imaging characteristics of an actual endovaginal exam you can develop and perfect the skills necessary to utilize ultrasound in your clinical environment. • Superb ultrasound imaging characteristics • Accurately mimics the feel and imaging characteristics of an actual endovaginal ultrasound exam • Contains 6 week intrauterine pregnancy • Uterus contains a normal decidual reaction • Endometrial stripe • Left and right ovaries with follicles • Corpus luteum cyst • Identify accessory pelvic structures including the broad ligament and bowel

**Size: 46x46x30.5cm, Weight: 7.8 kg**

**Ref.no. BPOB1200**

### **Ectopic Pregnancy Model for Endovaginal Ultrasound Training**

Same as **BPOB1200** but with 6week ectopic pregnancy instead of intrauterine Pregnancy.

**Ref.no. BPOB1210-ECT**

### **General Pathology Model for Endovaginal Ultrasound Training**

Same as **BPOB1200** but with Retroflexed Uterus with endometrial stripe, Uterine fibroids, Periovarian abscess, Free fluid in cul-de-sac. Identify accessory pelvic structures including the broad ligament and bowel.

**Ref.no. BPOB1220-GP**



**BP1610**

### **Amniocentesis Ultrasound Training Model**

This amniocentesis training model allows users to develop and practice the skills associated with ultrasound guided amniocentesis. The superb realism helps users to identify appropriate anatomy and to guide needle placements.

- Contains a 18 week fetus, anterolateral placenta, and amniotic fluid
- Externally accurate fetal anatomy allowing for 3-D ultrasound training
- Amniotic fluid level adjustable, amniotic fluid replacement included

**Size: 64x48x31cm, weight: 13.6 kg**

**Ref.no. BP1610**



**BPH600**

### Head-Neck-Upper Torso Vascular Access Training Model

The True Anatomy™ Series offers you the most realistic ultrasound simulation training available. This state-of-the-art ultrasound training model contains the jugular vein, subclavian vein, axillary vein, and carotid artery located within a realistic life sized anatomical model. Use ultrasound guidance to cannulate and thread catheters or use anatomical landmarks for “blind” insertion technique training. This model offers complete procedure simulation; use ultrasound guidance to access vessels and thread catheters. The artificial clavicle offers realistic subclavian vein access.

**Size: 46x46x33cm, Weight: 6.8 kg**

**Ref.no. BPH600**

**Repl. skin pad natural colour**

**Ref.no. BPH601**



**BPA220**



### Upper and Lower Arm Ultrasound Training Model

This ultrasound model is designed to aid learning and teaching how to use ultrasound to guide venous and arterial cannulations in the arm. The upper arm insert module contains the brachial and basilic veins as well as the brachial artery while the lower arm insert module contains the radial and ulnar arteries as well as the basilic and cephalic veins

**Size: 80x20x20cm, Weight: 4 kg**

**Ref.no. BPA220**

### Doppler Arm Blood Flow Model

Learn Color Flow Doppler, Pulsed Doppler, or Continuous Wave Doppler techniques on our arm model with integrated blood flow pumps.

- Arterial and venous flows in the radial and ulnar arteries and the basilic and cephalic veins
- Optimized for ultrasound frequencies from 5–12 MHz

**Ref.no. BPDA230**



**BPA200**

### Upper Arm Vascular Access Ultrasound Training Model

This Ultrasound model contains 4 blood vessels; the brachial and basilic veins as well as 2 arteries, this is an excellent training model for teaching the skills associated with ultrasound guided PICC line placements and Modified Seldinger Technique training.

**Size: 80x20x20cm, Weight: 3.2 kg**

**Ref.no. BPA200**





### Ultrasound Guided Thoracentesis Model

The True Anatomy™ Series offers clinicians extremely realistic ultrasound hands-on training. Excellent training platform for teaching and learning ultrasound guided thoracentesis as well as placing large and small bore chest tubes without ultrasound guidance. Life size anatomical chest model with superb ultrasound imaging characteristics offers the most realistic ultrasound simulation training. Use ultrasound to tap pleural fluid collections surrounding atelectatic lung. The Model can be oriented in a variety of patient positions allowing clinicians to develop a full complement of techniques. Cost effective modular design allows users to replace individual components as necessary. Build confidence by practicing on realistic simulation models. Thoracic ultrasound imaging reveals atelectatic lung with surrounding pleural effusion.

**Size: 43 x 28 x 43 cm, Weight: 10.5 kg**

**Ref.no. BPTT1000/1**

### Paracentesis Ultrasound Training Model

This paracentesis training model allows users to develop and practice the skills associated with ultrasound guided paracentesis. This training model has an optional femoral nerve and vessel ultrasound tissue module for ultrasound guided regional anesthesia and vascular access training.

- Ultrasound tissue module contains simulated bowel and colon, peritoneum, peritoneal fluid, and right inferior lobe of liver for extremely realistic training
- Excellent for ultrasound guided arterial catheterization and central venous access (with femoral nerve and vessel option)
- Multi-use platform; optional femoral nerve and vessel insert w/DVT

**Size: 63.5 x 48 x 31 cm, weight: 21 kg**

**Ref.no. BPPara1301**



### Ultra Sound Model Standard 2 Vessel

Contains two linear vessels that course through the model; a superficial and deep blood vessel measuring 4 mm and 8 mm. Excellent for clinicians beginning to use ultrasound for guided vascular access procedures.

**Size: 18 x 11 x 5 cm, Weight: 0.7 kg**

**Ref.no. BPO100**



### Ultra Sound Model Branched 4 Vessel

Contains four branched blood vessels; from 4 mm – 8 mm located at a variety of depths. Perfect for clinicians beginning to use ultrasound as well as more advanced users seeking more challenging insertion technique training. Users gain experience by targeting a variety of individual or overlapping vessels

**Size: 18 x 11 x 5 cm, Weight: 0.7 kg**

**Ref.no. BPPV110**

### Nerve Block Ultrasound Phantom

This Nerve Block ultrasound phantom offers clinicians a realistic and durable model for developing regional anesthesia skills associated with ultrasound guided peripheral nerve blocks.

- Contains 3 simulated nerve bundles with adjacent blood vessels
- Develop regional anesthesia skills of infusing fluid around nerves
- Injected fluid automatically expelled allowing for repeated training
- Also excellent for ultrasound guided vascular access training
- Excellent for practicing ultrasound system controls

**Size: 15 x 10 x 4 cm, Weight: 1 kg**

**Ref.no. BPNB150**

### Ultra Sound Model Pediatric Branched 4 Vessel

Designed for clinicians seeking to develop the skills necessary to cannulate the challenging vessels found in infants. Each model contains 4 simulated blood vessels; 2–4 mm vessels located at a variety of depths.

**Size: 18 x 11 x 5 cm, Weight: 0.7 kg**

**Ref.no. BPP120**



2046

### 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**



2048

### 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**



2051

### 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: 60x19x9cm,**

**Weight: 1.9 kg**

**Ref.no. 2051**



2050

### 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: 80x30x12cm,**

**Weight: 2.6 kg**

**Ref.no. 2050**



2044

### 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**



N121

### Acupuncture model

This male model provides a highly accurate illustration on all of the acupuncture points and meridians. All points are numbered and identified on the accompanying k-card. 1/3 life size. Mounted on base.

**Size: 20x15x53 cm,**

**Weight: 0,7kg**

**Ref.no. N121**



2052

### 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 traditional Chinese teaching. All parts suitable for insertion of needles. Including instructions in Chinese and English. Particularly economically priced in the set.

**Ref.no. 2052**

### Chinese acupuncture head

Acupuncture head according to traditional Chinese teaching. Including instructions in Chinese and English.

**Ref.no. 2070**

### Chinese acupuncture foot

Acupuncture foot according to traditional Chinese teaching. Including instructions in Chinese and English.

**Ref.no. 2068**



2060

### Acupuncture dog

Acupuncture figure of the dog with representation of the acupuncture points, musculature and internal organs.

**Size: 30 cm**

**Ref.no. 2060**

236



2062

### 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**



2064

### Acupuncture ears, natural size, 2-item set

Left and right acupuncture ear without marking of the acupuncture points according to traditional Chinese teaching. Suitable for insertion of needles.

**Ref.no. 2064**



2058

### Acupuncture horse

Acupuncture figure of the horse with representation of the acupuncture points, musculature and internal organs.

**Size: 25 cm**

**Ref.no. 2058**



2056

### Acupuncture cow

Acupuncture figure of the cow with representation of the acupuncture points, musculature and internal organs.

**Size: 15 cm**

**Ref.no. 2056**



2055

### Acupuncture cat

Acupuncture figure of the cat with representation of the acupuncture points, musculature and internal organs.

**Size: 19 cm**

**Ref.no. 2055**



2054

### Acupuncture pig

Acupuncture figure of the pig with representation of the acupuncture points, musculature and internal organs.

**Size: 13 cm**

**Ref.no. 2054**





VET1050

### 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: 5x9x18cm**

**Ref.no. VET1050**



VET1060

### 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: 18x14x28cm**

**Ref.no. VET1060**



VET1070

### Canine Elbow

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

**Size: 24x4.5x19cm**

**Ref.no. VET1070**



VET1075

### 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: 28x8x5cm**

**Ref.no. VET1075**



VET1080

### Canine Vertebral Column

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

**Size: 20x5x5cm**

**Ref.no. VET1080**



VET9051

### 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**



### Dog Skeleton

Skeleton cast of a small size dog. Skull and tail removable, jaw movable. The model is mounted on a plastic base and is not movable. Difference in posture possible.

**Size:** approx. 30x13x58 cm,

**Weight:** 1.2 kg

**Ref.no.** VET1500



### Dog Skeleton, big

Skeleton cast of a big size dog. Skull and tail removable, jaw movable. The model is mounted on a plastic base and is not movable. Difference in posture possible.

**Size:** approx. 60x35x120cm,

**Weight:** 3,5 kg

**Ref.no.** VET1640

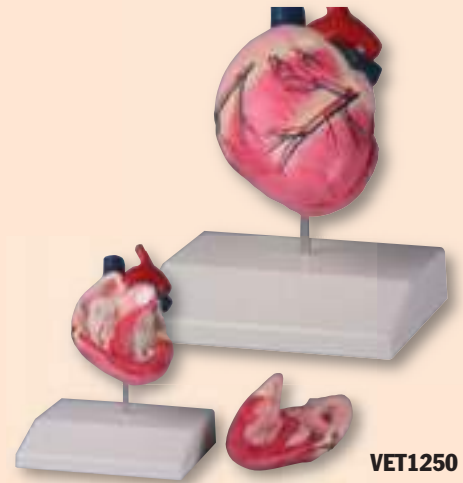


VET9151

### 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



VET1250

### 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



VET1150

### 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:** 7.5x9x11 cm

**Ref.no.** VET1150



### 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:** 12x7x5cm

**Ref.no.** VET1195



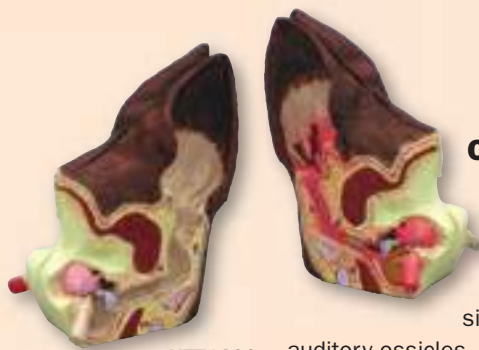
VET1196

### Clear Canine Jaw

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

**Size:** 12x7x5 cm

**Ref.no.** VET1196



### Canine Ear – Normal/Infected

This 2-sided, average size, canine ear depicts: a normal side with cochlea,

**VET1200** 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: 12x7x5cm**

**Ref.no. VET1200**



### 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. 14.5x11.5x8cm**

**Ref.no. VET9090**



**VET1550**

### Cat Skeleton

Skeleton cast of an average size cat. Skull and tail removable, jaw movable. The model is mounted on a plastic base and is not movable. Difference in posture possible.

**Size: approx. 24x13x58cm, Weight: 0.8 kg**

**Ref.no. VET1550**



### 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, tartar accumulation, plaque, gingivitis, worn incisors, retained deciduous tooth and missing premolar. The jaw may be opened, closed and separated for closer study.

**Size: 7x5x3cm**

**Ref.no. VET1190**



### 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: 18x11x6,5cm**

**Ref.no. VET9160**

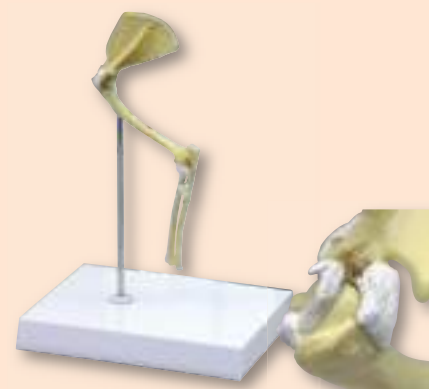


### Feline Heart/Lung

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

**Size: 9,5x7x6cm**

**Ref.no. VET9141**



### 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: 20x10x2,5cm**

**Ref.no. VET9170**





### 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:** 19x15x5cm,

**weight:** 200 g

**Ref.no.** VET2100



### Cow 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:** 18x11.5x5cm,

**weight:** 200 g

**Ref.no.** VET2000



### 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



LM46

### 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



**New**

### 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.

**CPR Dog**

**Replacement nosepieces, 10pcs**

**Replacement muzzles, 6pcs**

**Replacement lungs, 10pcs**

**Ref.no.** VET2550

**Ref.no.** VET2550A

**Ref.no.** VET2550B

**Ref.no.** VET2550C

# Real Animal bones



Our animal bone specimens are made by well-known taxidermists in Germany, following all animal protection and hygienic laws.

## Dog Skeleton

Assembled, small size dog

**Ref.no. VET3030**

Assembled, middle size dog

**Ref.no. VET3040**

Assembled, big size dog

**Ref.no. VET3050**



Unassembled, small size dog

**Ref.no. VET3000**

Unassembled, middle size dog

**Ref.no. VET3010**

Unassembled, big size dog

**Ref.no. VET3020**



## Cat skeleton

Assembled

**Ref.no. VET3060**

Unassembled

**Ref.no. VET3070**



## Dog Skull

small size

**Ref.no. VET3080**

## Dog Skull

big size size

**Ref.no. VET3085**



## Cat Skull

**Ref.no. VET3090**



## Guinea pig skull

**Ref.no. VET3095**

Other natural animal specimens can be supplied on request.

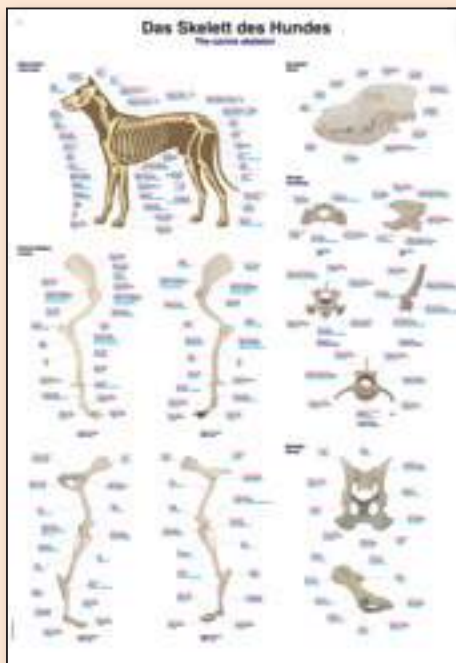


**New**

### 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**



### Chart „The canine skeleton“

70 x 100 cm,

Plastic, with metal edging and hanger.

German, Latin, English

**Ref.no. VL100**

50 x 70

Art paper, with rods and hanger.

German, Latin, English

**Ref.no. VL600**

**New**



### Chart „The canine musculature“

70 x 100 cm,

Plastic, with metal edging and hanger.

German, Latin, English

**Ref.no. VL110**

50 x 70

Art paper, with rods and hanger.

German, Latin, English

**Ref.no. VL610**

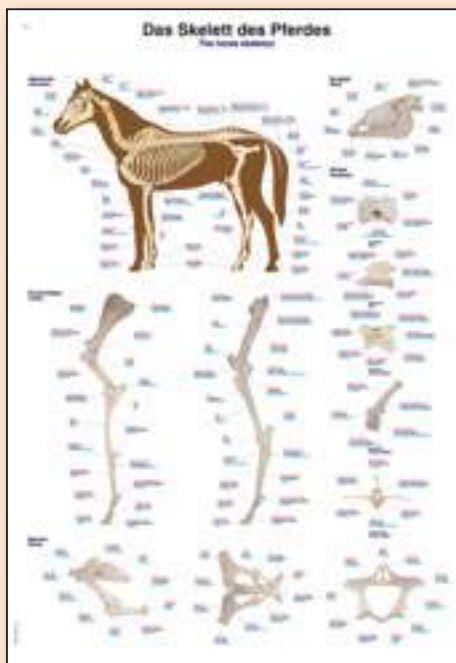


**New**

### 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**



### Chart „The horse skeleton“

70 x 100 cm,

Plastic, with metal edging and hanger.

German, Latin, English

**Ref.no. VL200**

50 x 70

Art paper, with rods and hanger.

German, Latin, English

**Ref.no. VL700**

**New**



### Chart „The equine musculature“

70 x 100 cm,

Plastic, with metal edging and hanger.

German, Latin, English

**Ref.no. VL210**

50 x 70

Art paper, with rods and hanger.

German, Latin, English

**Ref.no. VL710**



**New**

### 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**



# Anatomical Charts



**Chart „The human muscles“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL100**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL500**



**Chart „The human skeleton“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL102**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL502**



**Chart „The nervous system“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL105**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL505**



**Chart „The vascular system“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL106**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL506**



**Chart „The vertebral column“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, English  
**Ref.no. AL107**

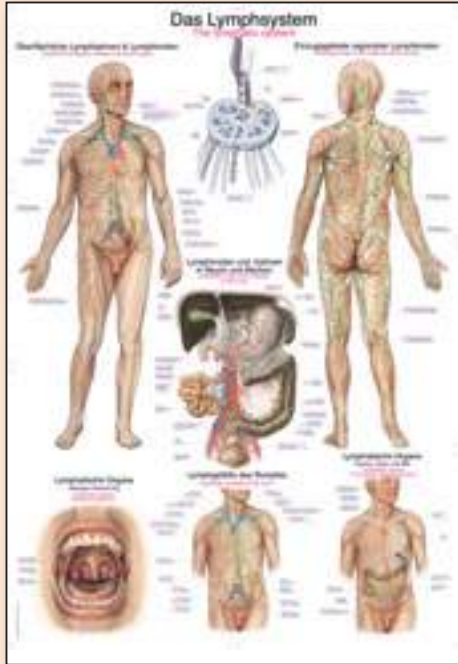
**50x70cm,**  
 Art paper, with rods and hanger  
 German, English  
**Ref.no. AL507**



**Chart „Lower Limb“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL108**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL508**

# Anatomical Charts



**Chart „The lymphatic system“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL109**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL509**



**Chart „Body acupuncture“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, English  
**Ref.no. AL110**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, English  
**Ref.no. AL510**



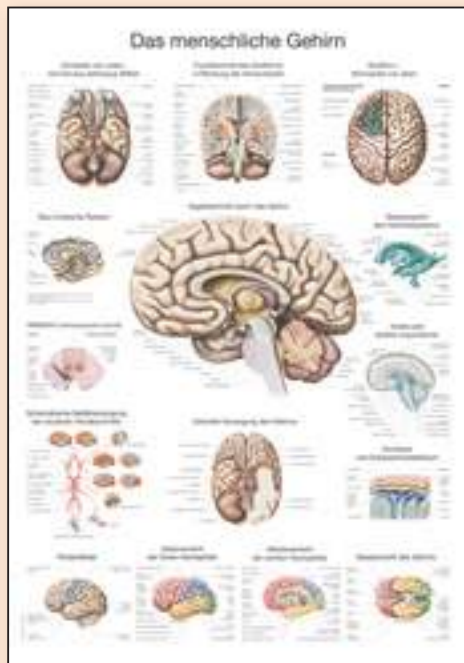
**Chart „The human heart“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, English  
**Ref.no. AL112**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, English  
**Ref.no. AL512**



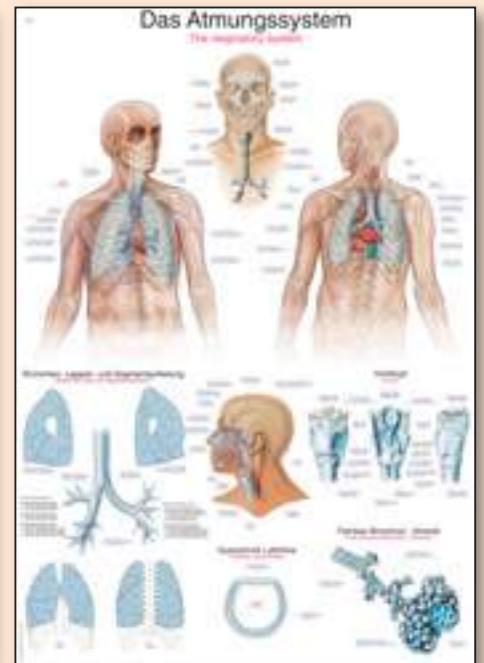
**Chart „Upper Limb“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL113**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL513**



**Chart „The human brain“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 English  
**Ref.no. AL114E**

**50x70cm,**  
 Art paper, with rods and hanger  
 English  
**Ref.no. AL514E**



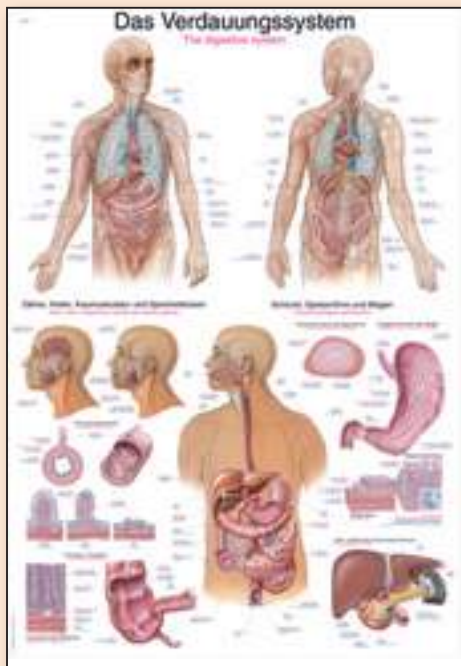
**Chart „The respiratory system“**  
**70x100cm,**  
 Plastic, with metal edging and hanger  
 German, Latin, English  
**Ref.no. AL116**

**50x70cm,**  
 Art paper, with rods and hanger  
 German, Latin, English  
**Ref.no. AL516**



# Anatomical Charts

**New**



**Chart „The digestive system“**

70 x 100 cm,

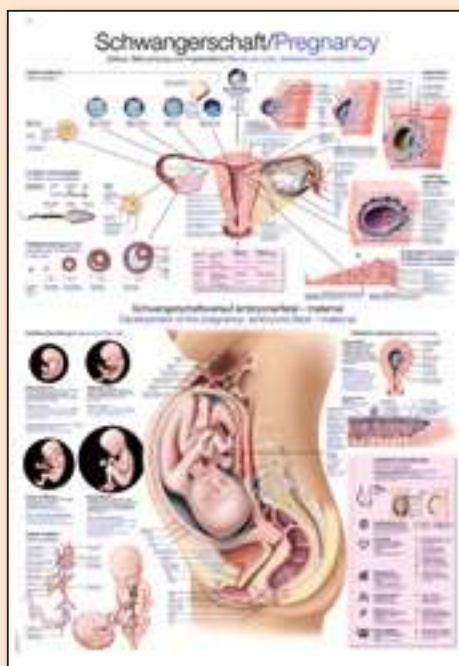
Plastic, with metal edging and hanger  
German, Latin, English

**Ref.no. AL117**

50 x 70 cm,

Art paper, with rods and hanger  
German, Latin, English

**Ref.no. AL517**



**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**



**Chart „Birth“**

70 x 100 cm

Plastic, with metal edging and hanger.  
German, English.

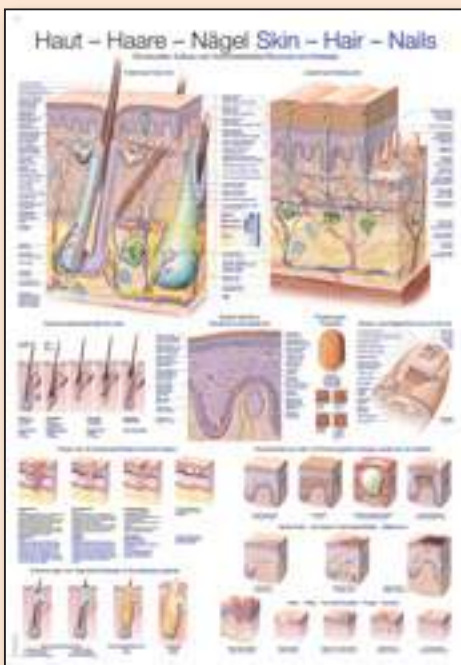
**Ref.no. AL119**

50 x 70 cm

Art paper, with rods and hanger,  
German, English

**Ref.no. AL519**

**New**



**Chart „Skin-Hair-Nails“**

70x100cm,

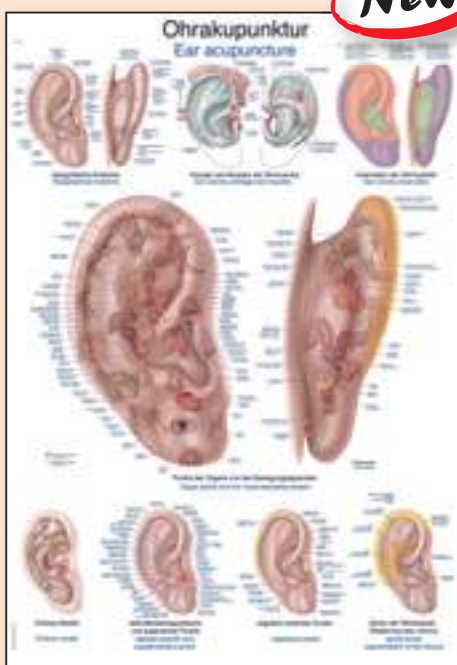
Plastic, with metal edging and hanger  
German, English

**Ref.no. AL121**

50x70cm,

Art paper, with rods and hanger  
German, English

**Ref.no. AL521**



**Chart “Ear acupuncture“**

70 x 100 cm

Plastic, with metal edging and hanger.  
German, English

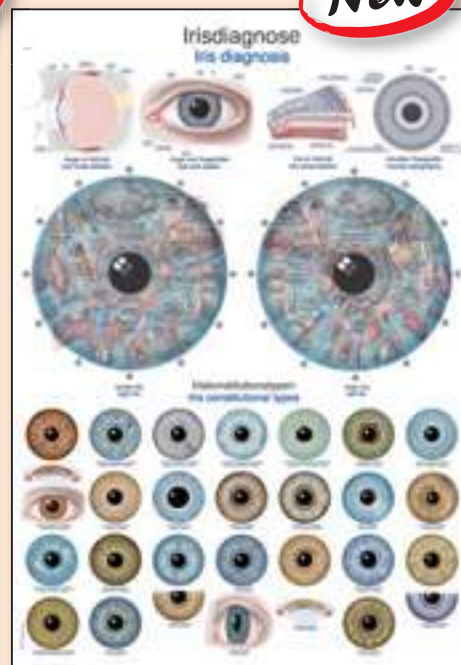
**Ref.no. AL125**

50 x 70 cm

Art paper, with rods and hanger,  
German, English

**Ref.no. AL525**

**New**



**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



**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**



**Chart „The female breast“**

70 x 100 cm,

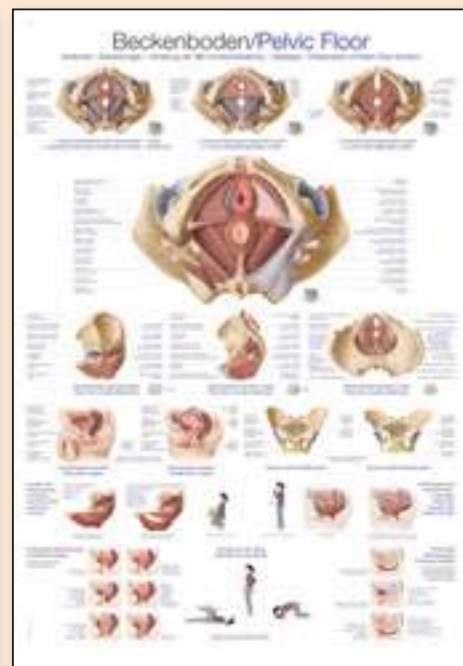
Plastic, with metal edging and hanger  
German, English

**Ref.no. AL134**

50 x 70 cm,

Art paper, with rods and hanger  
German, English

**Ref.no. AL534**



**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**



**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**



**Chart „The knee“**

70 x 100 cm,

Plastic, with metal edging and hanger  
German, English

**Ref.no. AL147**

50 x 70 cm,

Art Paper, with rods and hanger  
German, English

**Ref.no. AL547**



**Chart „Das Knie / Die Hüfte“**

70 x 100 cm,

Plastic, with metal edging and hanger  
German only!

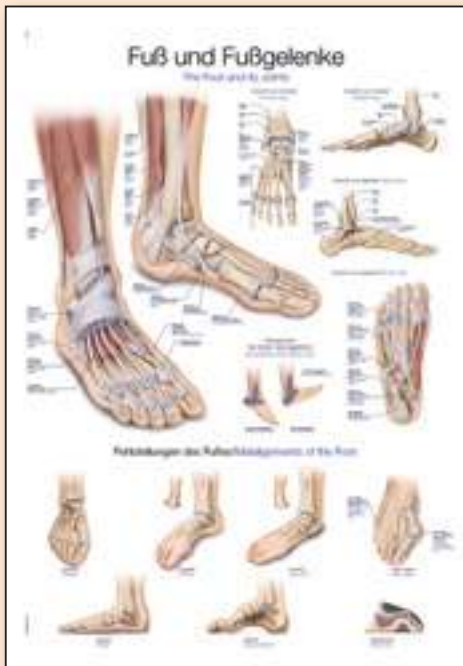
**Ref.no. AL151**

50 x 70 cm,

Art Paper, with rods and hanger  
German only!

**Ref.no. AL551**

# Anatomical Charts



**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**

**New**



**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**

**New**



**Chart „Dermatomes“**

70 x 100 cm,

Plastic, with metal edging and hanger  
German, English

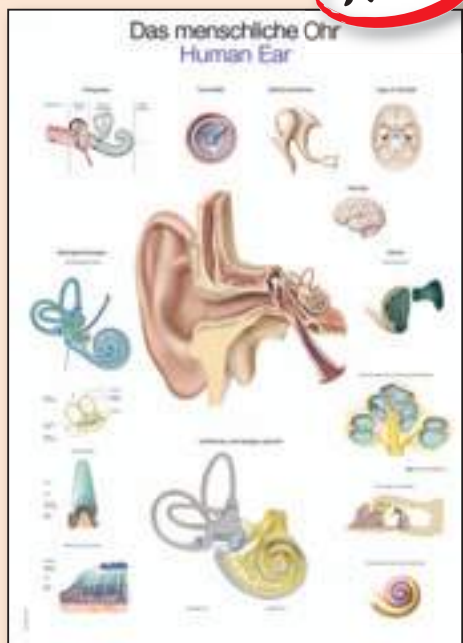
**Ref.no. AL161**

50 x 70 cm,

Art Paper, with rods and hanger  
German, English

**Ref.no. AL561**

**New**



**Chart „The human ear“**

70 x 100 cm

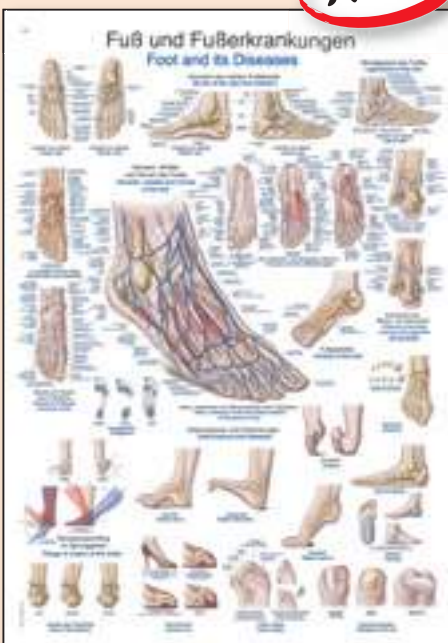
Plastic, with metal edging and hanger.  
German, English.

**Ref.no. AL120**

50 x 70 cm

Art paper, with rods and hanger,  
German, English.

**Ref.no. AL520**



**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**



**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**



# New Charts coming soon:

✓ Teeth and dental diseases

✓ Female genital organs

✓ The human eye

**More titles under development**

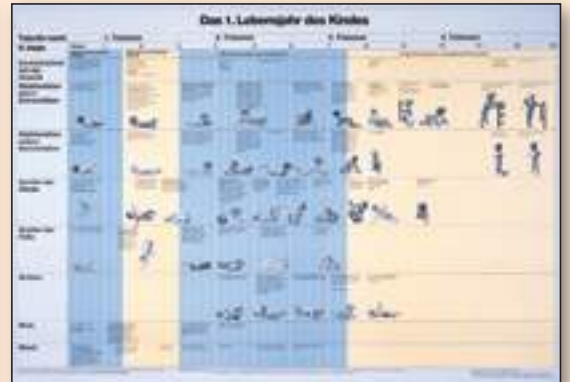
**Paediatric charts,** art paper with metal rods and hanger



**PT3** Lagereaktion nach Voita (42 x 58 cm)  
(German Language only!)

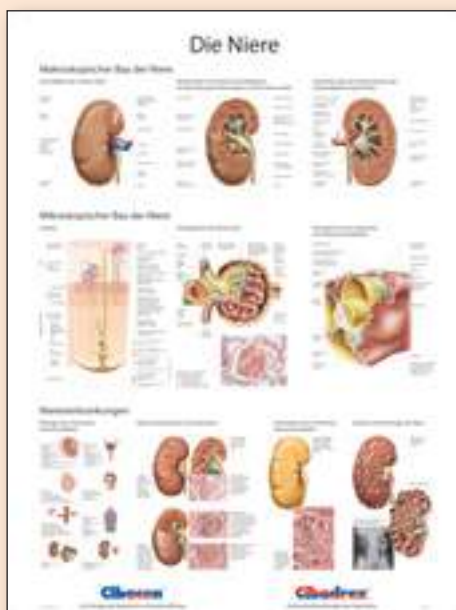


**PT6** Psychomotoric development (82 x 60 cm)



**PT9** Das 1. Lebensjahr des Kindes (82 x 60 cm)  
(German Language only!)

## Charts/Poster for pharmaceutical companies



For use as patient education aid for the pharmaceutical or medical industry we create custom made posters.

The design will be created individually after the needs and wishes of the customer.

**Ask for more information**





# AnatomyMap Learning Software

AnatomyMap is an innovative software tool that makes learning human anatomy easy. It is based on computer tomography data. AnatomyMap is the ideal solution to support personal learning or anatomy classes.

## Key Features

- Display anatomy in 3D in unprecedented quality. Interactively rotate, zoom, trim, and colorize the scene.
- View original CT slice data in three standard views (axial, sagittal, coronary)
- Browse the list of anatomical structures and explore their locations in 2D and 3D. Both systematic and topographic approaches are supported.
- Keep track of your learning curve through automatically generated exercises.
- Easy to use, modern look and feel.

AnatomyMap is based on years of experience of anatomists, radiologists, and software experts from the Universities of Heidelberg and Karlsruhe.

## Volume 1 – Head/Neck

### Ref.no. AM001

More volumes to follow shortly.

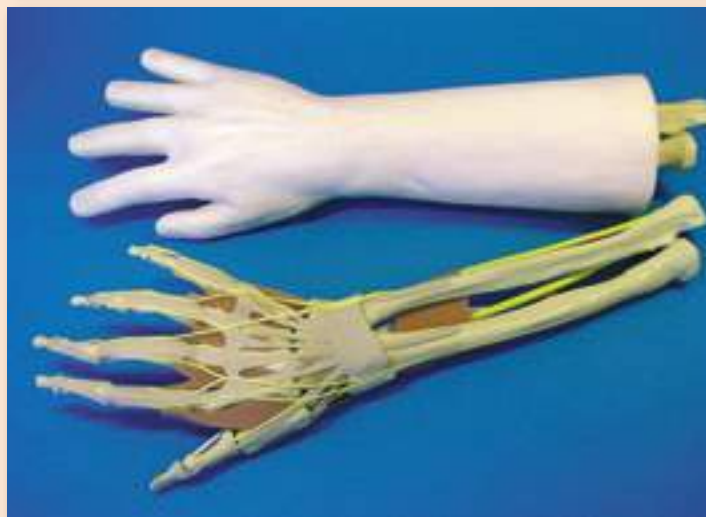
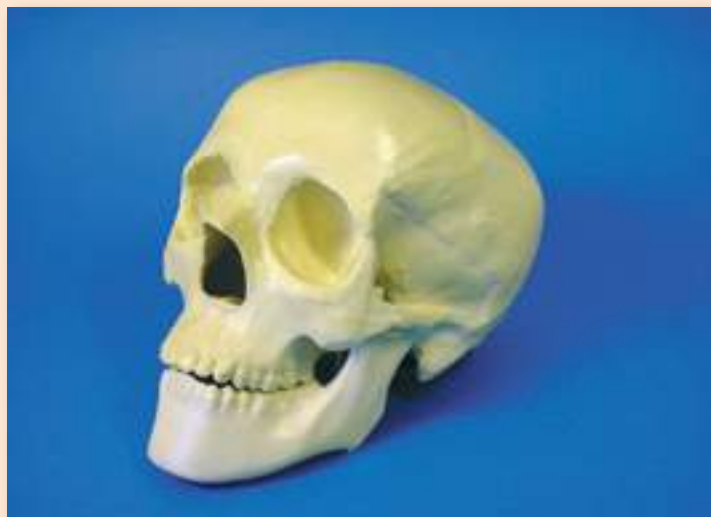
## Recommended system configuration

Intel® processor from 1.3 GHz, from 1 GB RAM, graphics cards NVIDIA® with 512 MB memory (GeForce 9, GT, GTX, GTS and many Quadro FX cards), ATI/AMD® cards with 1024 MB Memory (Radeon HD5xxx or better) Radeon HD4xxx series may run, but quality is not good. Microsoft® Windows® XP SP2, Windows Vista®, Windows Server® 2003 or 2008, Windows 7®



## Workshop - Bones

For Implantat Workshops a wide variety of standard bones can be supplied. The bones are made of a special material that can be drilled, cut and filed or treated in any other way. We have different bones for almost any kind of purpose. Standard bones are also available with prepared standard fractures.



# Special Training bones, Display bones and Implant Replicas

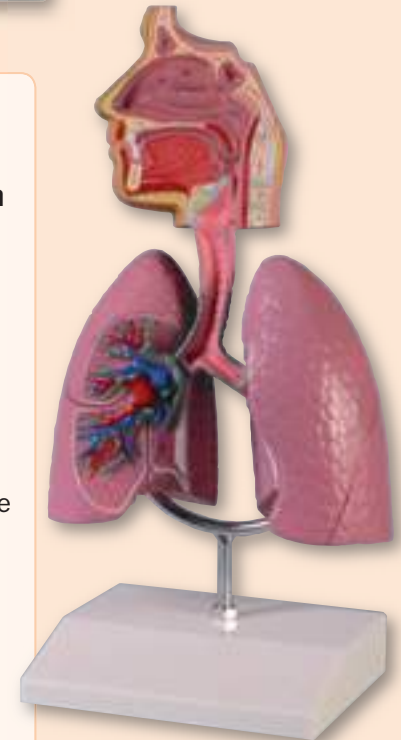
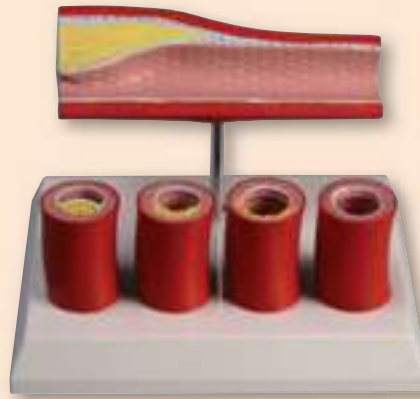
Custom made items for the implant industry are available as series, small series or even as single piece. We supply jaws, bones, tissue models or simulators for operation techniques after customer's requests. Ask us!

For the presentation of implants we manufacture clear bones or special colours or shapes. As presentation aid for real implants or with implant replicas made by us these bones are a sensational eye-catcher for every exhibition or presentation. Ask us without any obligation.





# patient education models for the pharmaceutical industry



**Impress your customers with decorative teaching models for the practice. As present for a drug agent, as premium gift or as giveaway, our models are always welcome.**

## **Your advantages:**

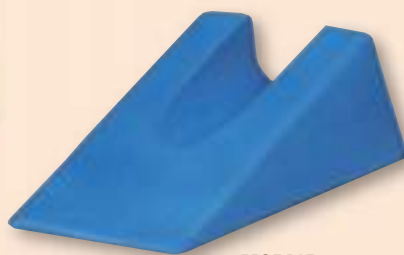
- with your requirements and our advice you will get a perfect advertising gift
- this will fit perfectly for your customers
- including your advertising imprint in one or more colours
- the models will stay at your customer for years and spread you message
- you may order small or big quantities
- short lead times
- very good value for money
- packed in nice single boxes, on request with individual design
- drop shipments for your salesmen or your customers is possible

**Individual printing, even small quantities**

**. . . ask us with no obligation,  
our staff is looking forward to give you advice.**



**MOBI2B**



**MOBI1R**

### **Mobilisation wedges**

**Size:** 155x95x50 mm

**Ref.no.** MOBI1R

**Size:** 220x105x80 mm

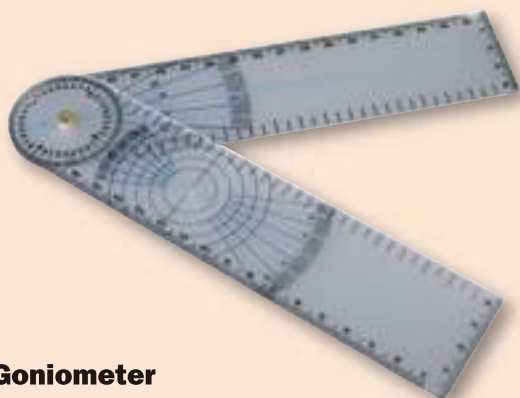
**Ref.no.** MOBI2B



### **Retaining strap**

(banana belt) in leather

**Ref.no.** 5410



### **Goniometer**

Plastic

**Ref.no.** WM15



**TRAK1**

### **Traction belt**

With metal buckle

**Length:** 220 cm, **width:** 5 cm

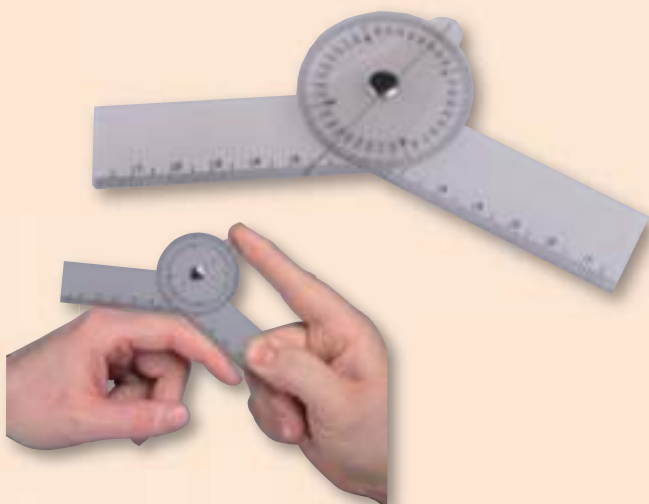
**Ref.no.** TRAK1

### **Traction belt**

With metal buckle

**Length:** 270 cm, **width:** 5 cm

**Ref.no.** TRAK2



### **Finger-Goniometer**

Plastic

**Ref.no.** WM25

### **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





1820.15

Now with security switch  
to prevent unauthorised use

## 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 levelling adjustment making the table suitable for uneven flooring
- Choose the colour at no extra charge for special colour from our colour chart.

#### 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**

#### 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**



Head section folds down vertically



Hand switch

**Choose your upholstering colour from  
the colour table on page 256.**



Foot switch



## Additional equipment for the Praxis couch



1820.70

### Wheels

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

**Ref.no. 1820.70**



1820.40

### 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**



1820.80

### Insert for nose slit

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

**Ref.no. 1820.80**

### Extra-wide surface area 80 cm

**Ref.no. 1820.60** (not pictured)

### Luxury upholstery

Especially thick and soft upholstery

**Ref.no. 1820.65** (not pictured)



1820.30

### 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**



1820.50



### 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**



1820.90



1820.90

### 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**

Motor option for top and tilt position **Ref.no. 1820.91**



1820.95

### Fixing rails

with belt holder

**Ref.no. 1820.95**



1820.92

### Extension gallows

for extension treatment.

Only order if you also have ordered the tilt position!

**Ref.no. 1820.92**



1820.98

### Treatment set

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

**Ref.no. 1820.98**



1820.68

### Holder for paper roll

**Ref.no. 1820.68**

### Paper roll

**Ref.no. R15134**

# Colour card for artificial leather Please state the colour number on your bench order.



Colour no. 1



Colour no. 2 Extra cost!



Colour no. 3



Colour no. 4 Extra cost!



Colour no. 5



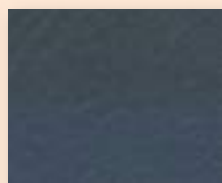
Colour no. 6



Colour no. 7 Extra cost!



Colour no. 8 Extra cost!



Colour no. 9



Colour no. 10



Colour no. 11 Extra cost!



Colour no. 12 Extra cost!



Colour no. 13 Extra cost!



Colour no. 14 Extra cost!



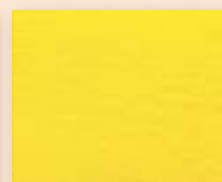
Colour no. 15



Colour no. 16



Colour no. 17



Colour no. 18



Colour no. 19 Extra cost!



Colour no. 20



Colour no. 21 Extra cost!



Colour no. 22 Extra cost!



Colour no. 23



Colour no. 24



Colour no. 25



Colour no. 26



Colour no. 27 Extra cost!



Colour no. 28 Extra cost!



Colour no. 29 Extra cost!



Colour no. 30 Extra cost!



Colour no. 31 Extra cost!



Colour no. 32 Extra cost!



Colour no. 33



Colour no. 34 Extra cost!



Colour no. 35



Colour no. 36



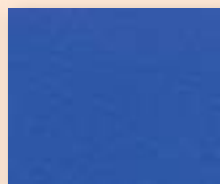
Colour no. 37 Extra cost!



Colour no. 38 Extra cost!



Colour no. 39



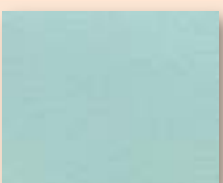
Colour no. 40



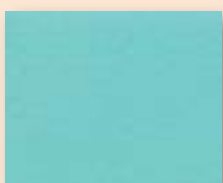
Colour no. 41 Extra cost!



Colour no. 42 Extra cost!



Colour no. 43



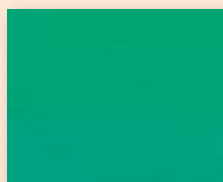
Colour no. 44



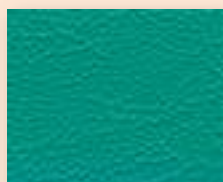
Colour no. 45



Colour no. 46 Extra cost!



Colour no. 47



Colour no. 48 Extra cost!



Colour no. 49 Extra cost!

Colour differences to real artificial leather are possible due to printing reasons.

## Table of content

Acupuncture	235 – 236
Airway management	175 – 179
Age Simulation	154 – 155
Arm / Hand	032 – 034
Auscultation	156 – 158
Bandaging	145
Brain	062 – 067
Cancer prevention	126 – 129
Catheterism	150 – 152
Central venous catheter	170 – 172
Charts / Posters	242 – 248
Child nursing dolls	136 – 137
Contraception	113
CPR dolls	182 – 193
Dental training	218
Diabetes	103
Diabetes	146 – 148
Dialysis	174
Ear	077 – 080
Endoscopy	212 – 217
Eye	074 – 076
Foot care	153
Gynecology	123 – 125
Head	058 – 059
Heart Catheterization	228
Heart / Circulatory system	089 – 093
Infant dolls	130 – 135
Injection	161 – 169
Intradermal Injection	174
Intraosseous Infusion	180
Intervertebral discs	024
Joints	038 – 041
Kidney	094 – 095
Leg / Foot	035 – 037
Liver / Pancreas	096 – 098
Lumbar puncture	158 – 160
Megacode Trainer	194 – 199
Muscles	054 – 057
Nerves	068 – 069
Nose / Throat	060 – 061
Nursing dolls	138 – 144
Osteoporosis	023
Pelvis	012 – 013
Pneumothorax	181
Pregnancy	110 – 112
Pregnancy / Birth simulators	114 – 122
Rescue dolls	200 – 205
Respiratory System	084 – 088
Skeletons	001 – 011
Skin / Hair	070 – 073
Skin suture	209 – 211
Skulls	025 – 031
Software	249
Spines	014 – 018
Stoma care	149
Stomach / Intestines	098 – 102
Teeth	081 – 083
Therapy-and Diagnostic tools	253
Torsos	042 – 053
Trauma Simulator	173
Treatment benches	254 – 256
Urinary system / Genital organs	105 – 109
Ultrasound	229 – 234
Vertebrae	019 – 022
Veterinary models	237 – 242
Wound simulation	206 – 208
X-Ray / CT	219 – 227

## Life time repair guarantee!

All models and simulators you buy at our company do have a life time repair guarantee. We do not care how old or how damaged a model is, we will repair it as long as you ask us to do so. Repair cost estimates are free of charge.



## Product care by professionals

You have some models that are used very intensively? Use our maintenance and care service. We clean your models and repair whatever might be necessary. With this service your models will always stay new and your product will last much longer.

## Spare parts

Of course spare parts for all our models and simulators are available, ask us without any obligation.



