



Building knowledge through

# EDUCATION

Medical education strives to empower students with the knowledge necessary to provide patients with the best care possible. At 3B Scientific we are passionate about combining years of research and professional experience to enable educators in the field of medical science. We believe that robust products of the highest quality are necessary in a field where those learning will one day be performing on human lives.

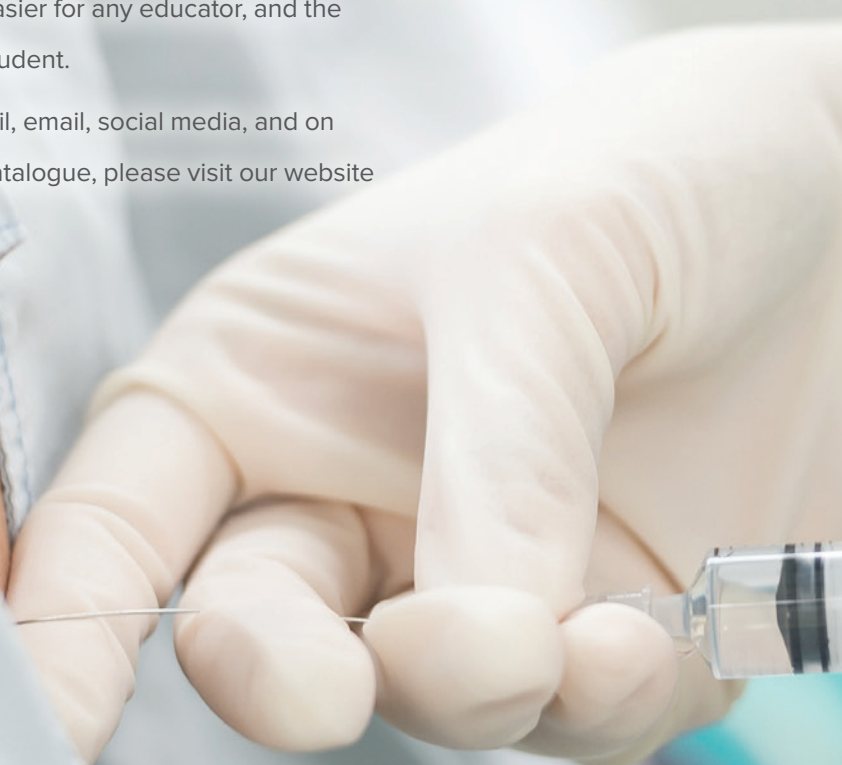
3B Scientific provides durable models with extreme fidelity, simulators that recreate lifelike scenarios, and the support of an informed team of specialists. These resources are guaranteed to make the teaching aspect of a classroom easier for any educator, and the learning experience more exciting and hands-on for the student.

For your convenience, you can reach us via telephone, mail, email, social media, and on the web. If you cannot find the product you need in this catalogue, please visit our website at [3bscientific.com](http://3bscientific.com).

Miles Spratt  
Vice President, Medical



**EPIDURAL & SPINAL INJECTION TRAINER**  
Extremely realistic haptic feedback at a low price, see page **110!**





# MEDICAL CATALOGUE

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**NEW**  
Metal Stand with  
5 Castors!



**Stan the 3B Scientific® Classic Skeleton, A10**  
Stan's the man! This classic model has been the standard of quality in hospitals, schools, universities, and laboratories for over 50 years. Ideal for active use in teaching and demonstrations, this is the most affordable full-size skeleton of this quality available anywhere! Don't settle for imitations which compromise quality in workmanship and materials. Pelvic mounted roller stand. 176,5 cm; 9,57 kg  
**M-1013853**

**Affordable, reliable, and genuine 3B Scientific®!**



3-part skull (skull cap, skull base, mandible)



Movable joints



**Stan on Hanging Stand, A10/1**  
192,5 cm; 8,77 kg  
**M-1013857**







**Max the Classic Muscle Skeleton, A11**

This version contains all the standard benefits of a 3B Scientific® Skeleton. In addition, it shows the structural interaction between bones and muscles. It depicts over 600 structures of medical/anatomical significance including muscle origins (red) and insertions (blue) on the left side as well as hand numbered bones, fissures and foramina on the right side. 176,5 cm; 9,57 kg

M-1013858

**Affordably priced with no sacrifice in quality!**



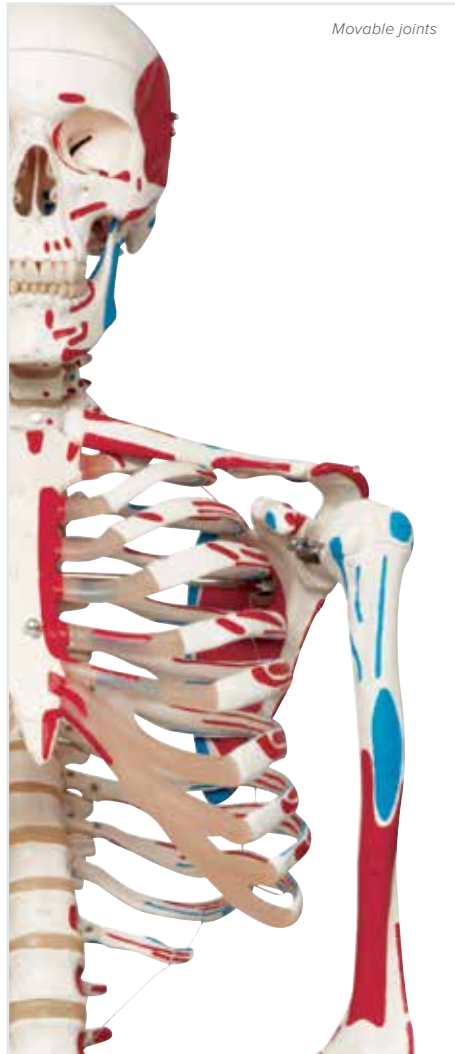
3-part numbered skull (skull cap, skull base, mandible)



**Max on Hanging Stand, A11/1**

192,5 cm; 8,77 kg

M-1013859



Movable joints



**NEW**  
Metal Stand with  
5 Castors!





**NEW**  
Metal Stand with  
5 Castors!



### Leo the Classic Ligament Skeleton, A12

In addition to the standard advantages of a 3B Scientific® Skeleton, Leo provides representations of the structural interaction between bones and ligaments. His elastic ligaments on the major appendicular joints (shoulder, elbow, hip, and knee) are mounted on the right side. Comes on stable metal stand with 5 castors and transparent dust cover! 176,5 cm; 10 kg

M-1013860

### Elastic, movable joints!



Elastic knee ligaments



### Heavy Duty Protective Cover

Protect your investment with our heavy-duty protective cover. Suitable for all full-size skeletons and stand versions. Black.

M-1005468





► **Bestseller**

**A13, Sam the Super Skeleton Does it All!**

Sam's fully flexible vertebral column allows you to demonstrate all natural postures, including the movements of the skull and head joints. The unique combination of a flexible vertebral column, muscle origins and insertions, numbered bones, flexible joint ligaments, and a disc prolapsed between the 3rd and 4th lumbar vertebrae allow you to display over 600 structures of medical/anatomical interest with this top of the line model. 176,5 cm; 10 kg

M-1013867

**Flexible vertebral column!**



Hand painted and numbered Skull



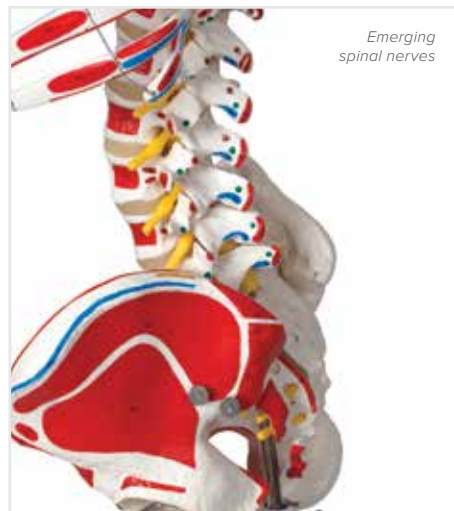
**Sam on Hanging Stand, A13/1**

192,5 cm; 10 kg

M-1013872



Shoulder ligaments



Emerging spinal nerves

**NEW**  
Metal Stand with  
5 Castors!





**NEW**  
Metal Stand with  
5 Castors!



### Frank the Functional Skeleton, A15/3S

This unique functional Skeleton comes on a hanging stand and features a flexible assembly of all joints, allowing you to perform the individual movements in a nearly life-like way. You can even demonstrate the complex motions of the upper extremity. The shoulder blades rotate along when the arms are raised. Graphically demonstrate the position of the radial and ulnar bones during inward and outward rotation of the lower arm. The flexible spine allows for natural movement (lateral inclination, flexion and extension, rotation). Even the restricted mobility of the iliosacral joint and the sacrococcygeal joint can be demonstrated. 192,5 cm; 9,6 kg

M-1013880

**You've never seen a skeleton  
move like this before!**



### Physiological Phil the Skeleton, A15/3

Physiological Phil is unique in its near life-like realisation of the joint mechanisms. He allows you to demonstrate the inward and outward rotation of the arms and legs and the extension and flexion of the knee and elbow joints. The flexible spine allows for natural movement (lateral inclination, movement and extension, rotation). The bones of the hands are wire mounted to demonstrate their natural positions. The foot bones are mounted flexibly to enable movability. The shoulder blades rotate along when the arms are raised. Even the restricted mobility of the iliosacral joint and the sacrococcygeal joint can be demonstrated. 192,5 cm; 9,6 kg

M-1013875

### Demonstrate any movement with Phil the Skeleton!



*First class natural cast*



### Fred the Flexible Skeleton, A15

Fred's spine can bend to mimic any natural human movement. Once flexed, it remains fixed in position to demonstrate correct and incorrect posture or various pathological conditions. In addition, all skull movements can be demonstrated. Spinal nerve exits and vertebral arteries are shown as well as a dorso-lateral disc prolapse between the 3rd and 4th lumbar vertebrae. Fred has all the standard benefits of a 3B Scientific® Skeleton. 176,5 cm; 9,6 kg

M-1013873

### Extremely flexible!



**NEW**  
Metal Stand with  
5 Castors!



# Skeleton Comparison Guide

All of our skeletons are cast from a single specimen. They are hand assembled and made from durable, unbreakable plastic with individually modeled teeth. The skeletons come with a dust cover and include a metal stand.

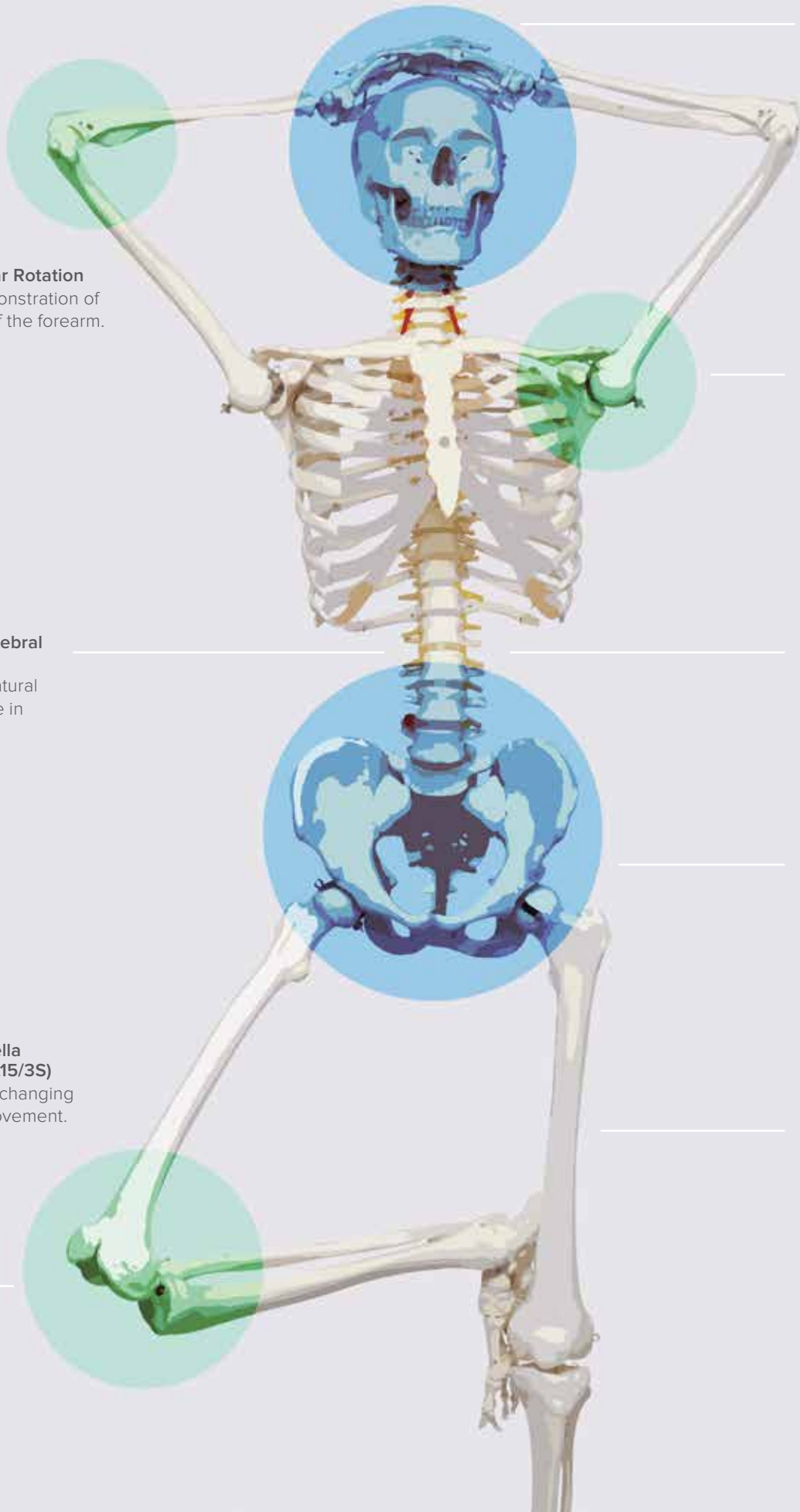
| Features   | A10 | A10/1 | A11 | A11/1 | A12 | A13 | A13/1 | A15 | A15/3 | A15/3S |
|--|-----|-------|-----|-------|-----|-----|-------|-----|-------|--------|
| Top quality natural casting                          | •   | •     | •   | •     | •   | •   | •     | •   | •     | •      |
| Final assembly done by hand                          | •   | •     | •   | •     | •   | •   | •     | •   | •     | •      |
| Durable, unbreakable synthetic material              | •   | •     | •   | •     | •   | •   | •     | •   | •     | •      |
| Natural skeleton size                                | •   | •     | •   | •     | •   | •   | •     | •   | •     | •      |
| Close to the actual weight of approx. 200 bones      | •   | •     | •   | •     | •   | •   | •     | •   | •     | •      |
| 3 part skull that can be taken apart                 | •   | •     | •   | •     | •   | •   | •     | •   | •     |        |
| Rotating ulna and radius                             | •   | •     | •   | •     | •   | •   | •     | •   | •     | •      |
| Soft intervertebral discs                            | •   | •     | •   | •     | •   | •   | •     | •   | •     | •      |
| Metal stand with 5 castors                           | •   |       | •   |       | •   | •   |       | •   |       |        |
| Metal hanging stand with 5 castors                   |     | •     |     | •     |     |     | •     |     | •     | •      |
| L3-L4 slipped disc                                   |     |       |     |       |     | •   | •     | •   |       |        |
| Flexible spine                                       |     |       |     |       |     | •   | •     | •   | •     | •      |
| Muscle insertions and origins, hand-painted          |     |       | •   | •     |     | •   | •     |     |       |        |
| Flexible ligaments                                   |     |       |     |       | •   | •   | •     |     |       |        |
| Spinal nerves and vessels                            |     |       |     |       |     | •   | •     | •   |       |        |
| Numbered bones, fissures, foramina and processes     |     |       | •   | •     |     | •   | •     |     |       |        |
| Flexible assembly of all large joints                |     |       |     |       |     |     |       |     | •     | •      |
| Natural movement of the shoulder and shoulder blades |     |       |     |       |     |     |       |     |       | •      |
| Natural movement of the knee cap                     |     |       |     |       |     |     |       |     |       | •      |
| Almost natural movement of the hip                   |     |       |     |       |     |     |       |     | •     | •      |
| Flexible assembly of the foot bones                  |     |       |     |       |     |     |       |     | •     |        |
| Flexible assembly of the xiphoid process             |     |       |     |       |     |     |       |     | •     | •      |

| Model | Item No.  |
|-------|-----------|
| A10   | M-1013853 |
| A10/1 | M-1013857 |
| A11   | M-1013858 |
| A11/1 | M-1013859 |
| A12   | M-1013860 |

| Model  | Item No.  |
|--------|-----------|
| A13    | M-1013867 |
| A13/1  | M-1013872 |
| A15    | M-1013873 |
| A15/3  | M-1013875 |
| A15/3S | M-1013880 |

# SKELETON FEATURES

Quality that meets your expectations



**3-Part Skull**  
Comes with individually inserted teeth.

**Radial & Ulnar Rotation**  
Realistic demonstration of the rotation of the forearm.

**Natural movement of shoulder and blades (A15/3S)**  
Demonstrate realistic movement.

**Soft Intervertebral Discs**  
Top quality natural casting "Made in Germany."

**Flexible Spine (A13, A13/1, A15, & A15/3S)**  
Accepting the challenge of all natural postures.

**Realistic Patella Movement (A15/3S)**  
Demonstrate changing position in movement.

**Naturally Moving Hip (A15/3 & A15/3S)**  
Individual movements almost true-to-life.

**Top Quality Natural Cast**  
Hand assembled and made from durable, unbreakable plastic. Life-size and close to actual weight.





## Upper Extremities



### A. Hand Skeleton

Wire mounted, slightly flexible fingers.

Left M-1000100  
Right M-1000101

### B. Loose Hand Skeleton

Threaded very loosely on nylon.

Left M-1000096  
Right M-1000097



### H. Ulna

Left M-1000106  
Right M-1000107

### I. Radius

Left M-1000108  
Right M-1000109



### C. Hand Skeleton w/ Ulna Radius

Wire mounted, naturally flexible wrist joint. Slightly flexible fingers.

Left M-1000102  
Right M-1000103

### D. Loose Hand Skeleton w/ Ulna Radius

Loosely mounted on bungy string. Ulna and radius wire mounted.

Left M-1000098  
Right M-1000099



### J. Scapula

Left M-1000110  
Right M-1000111

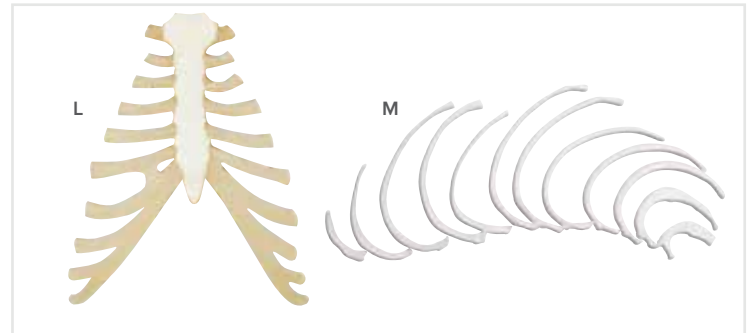
### K. Clavicle

Left M-1000112  
Right M-1000113



### E. Humerus

Left M-1000104  
Right M-1000105



### L. Sternum with Rib Cartilage

Replica human sternum with rib cartilage.  
M-1000136

### M. Ribs

12 individual ribs of one side, unmounted.  
M-1000137



### F. Arm Skeleton

Wire mounted, naturally flexible wrist and elbow joints. Slightly flexible fingers.

Left M-1000114  
Right M-1000115

### G. Arm Skeleton w/ Scapula Clavicle

Wire mounted, flexible wrist, elbow, and shoulder joints. Slightly flexible fingers.

Left M-1000116  
Right M-1000117

## Lower Extremities



### N. Foot Skeleton

Mounted on wire.

Left M-1000073  
Right M-1000074

### O. Loose Foot Skeleton

Threaded on nylon.

Left M-1000071  
Right M-1000072



**P. Loose Foot Ankle Skeleton**

Mounted with elastic bungy. Includes portions of the tibia & fibula. Flexible.

Left M-1000075  
Right M-1000076

**Q. Foot Skeleton with Tibia and Fibula**

Wire mounted.

Left M-1000077  
Right M-1000078

**R. Patella**

Left M-1000081  
Right M-1000082

All 206 bones represented



**Disarticulated Full Skeleton, numbered with muscle origins and insertions**

This special version has over 600 anatomical structures, identified in a multilingual product manual. The skeleton is supplied in a sturdy, partitioned storage box with heavy-duty, carrying handle. Features: 3-part skull; one hand and foot are mounted with wire; one arm and leg loosely articulated. 48,5 x 27 x 42,5 cm; 6 kg

M-1000026

**Disarticulated Full Skeleton, wire mounted hand/foot (not shown)**

One hand and foot on wire, one loosely articulated. Supplied in a sturdy partitioned storage box. 48,5 x 27 x 42,5 cm; 4,8 kg

M-1000025



**S. Leg Skeleton**

Wire mounted, slightly flexible toes and ankle joint. Flexible knee joint.

Left M-1000090  
Right M-1000091

**T. Leg Skeleton with Hip Bone**

Wire mounted, slightly flexible toes and ankle. Flexible hip and knee joints.

Left M-1000092  
Right M-1000093



**Disarticulated Half Skeleton, with loose hand/foot**

This version has the hand and foot loosely articulated on nylon cord. Otherwise identical to the M-1000023. 48,5 x 27 x 42,5 cm; 4 kg

M-1000024

**U. Fibula**

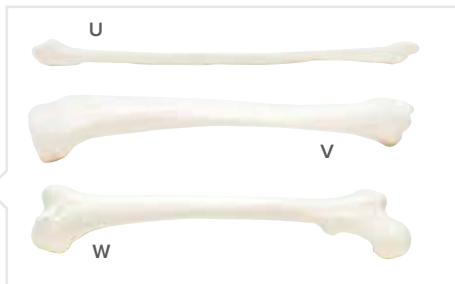
Left M-1000085  
Right M-1000086

**V. Tibia**

Left M-1000083  
Right M-1000084

**W. Femur**

Left M-1000079  
Right M-1000080



Comes in heavy-duty partitioned box for easy transport and storage

**X. Atlas and Axis, wire mounted**

M-1000140

**Y. Atlas and Axis, with occipital plate**

Wire mounted together on removable stand.

M-1000142

**Z. Hip Bone**

Left M-1000087  
Right M-1000088



**Disarticulated Half Skeleton, with wire mounted hand/foot**

Complete with 3-part skull, sternum, hyoid and spinal column. 49 x 43 x 26,5 cm; 4 kg

M-1000023



**AA. Sacrum and Coccyx**

Assembled  
M-1000139

**BB. Hyoid Bone**

Mounted on stand.  
M-1000143





✔ **Demonstrations**  
Easily and effectively demonstrate placements of plates, screws and implants.



✔ **Train**  
Keep surgical training as realistic as possible with these simulated bone material.



# ORTHO**bones**

For all orthopaedic surgical training needs

Quality simulated bone models that are as similar to real bones as possible. Use 3B Scientific ORTHO**bones** for all your workshop and training needs and be sure to work on the most advanced simulated bones in the market.

- Excellent biomechanical characteristics
- Strength properties similar to real bones
- Demonstrate and train procedures
- Display medical devices



- ✓ **Implant Technology**  
Test and train the placement of implants and medical devices.



- ✓ **Realistic Features**  
The excellent biomechanical features of the bones allow for realistic demonstrations and trainings.





# ORTHO**bones**

Premium Class Workshop Bones

## 3B Scientific® ORTHObones:

Throughout the world, surgeons and medical engineers are taking advantage of the newly developed 3B Scientific® ORTHObones.

3B Scientific® ORTHObones have been cast from real specimen and are anatomically correct. The shape and physical qualities are like those of a genuine human bone.

The excellent mechanical characteristics and the exact anatomical details are the most amazing features of 3B Scientific® ORTHObones. The key to the impressive similarity to real bones lies in the multi-layered construction of cortical and cancellous bone and the innovative production process.

3B Scientific® ORTHObones are made from a special mixture of plastics that enable the use of imaging procedures, such as x-rays, without any pre-processing of the material.

3B Scientific® ORTHObones are suitable for practicing a very wide range of osteosynthetic procedures and deepening knowledge of them. Screws can be secured to the rigid cortical bone, and implants and plates can be used on it.

- High quality product
- Anatomically correct
- High contrast x-rays possible
- Better training results thanks to the realistic mechanical features
- Dual component composition: cortical and cancellous bone
- Suitable for large workshops: excellent value for money



**Elbow with Latex Band**  
M-1018335



**Knee**  
Right Knee M-1018341  
Left Knee M-1018340



**Wrist**  
Left Wrist M-1018337



**Femur**  
Right Femur M-1005117  
Left Femur M-1016668



**Humerus**  
Right Humerus M-1005121  
Left Humerus M-1016670

Lumbar  
Vertebrae



Specifically designed for surgery workshops and medical engineers

Visit [3bscientific.com](http://3bscientific.com) for full product descriptions and additional information.

**Tibia:**

Right Tibia M-1005118  
Left Tibia M-1016669

**Half Pelvis:**

Right Pelvis M-1005119  
Left Pelvis M-1016702

**Ulna:**

Right Ulna M-1005123  
Left Ulna M-1016672

**Thoracic Vertebra:**

M-1018334

**Radius:**

Right Radius M-1005122  
Left Radius M-1016671

**Lumbar Vertebra:**

M-1017583

**Pelvis with Femur:**

Left Pelvis M-1018343  
Right Pelvis M-1018344

**Mandible with Teeth:**

M-1005116

**Sacrum Bone:**

M-1005120

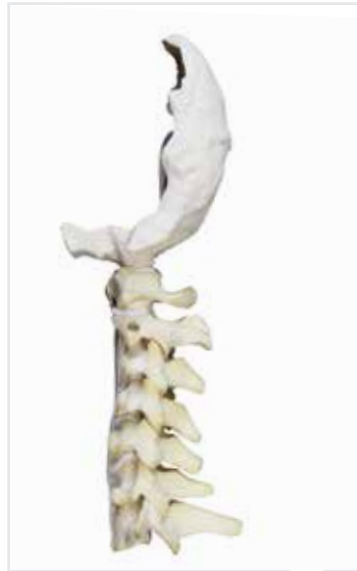
## NEW ORTHObones



Full Spine  
M-1018331



Cervical Vertebra  
M-1018332



Cervical Vertebra with Occipital Bone  
M-1018333



Full Pelvis with Femurs  
M-1018342



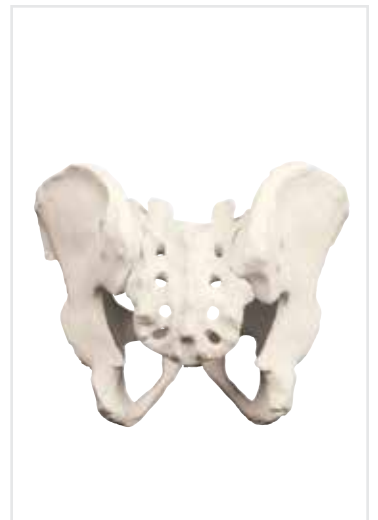
Knee Joint with Ligaments  
M-1018338



Hand  
M-1018336



Foot with Hammertoes, Bunions & Heel  
M-1018339



Full Male Pelvis  
M-1018096





**Structural Anatomy of the Hand, 3-part**

Right down to the fingerprints, this full-size model shows amazing detail. The superficial and internal structures of the hand including bones, muscles, tendons, ligaments, nerves, veins, and arteries (superficial and deep palmar arches) are all present. The palmar aponeurosis and plate of the superficial flexor tendons are removable. 28,5 x 13 x 6,5 cm; 1,2 kg

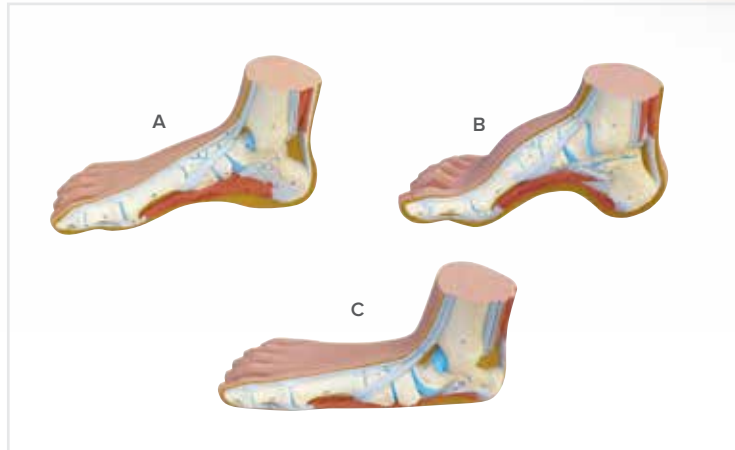
**Analyse the palmar surface through three increasingly deeper levels:**

1st level: palmar aponeurosis.

2nd level: exposes the flexor retinaculum, superficial palmar arch, tendons of the flexor digitorum, and lumbricales muscles.

3rd level: uncovers the deep palmar arch, and deep layer of muscles, nerves, tendons, and ligaments.

M-1000349



**A. Normal Foot (Pes Normal)**

13 x 24 x 9 cm; 0,4 kg  
M-1000354

**B. Hollow Foot (Pes Cavus)**

13 x 23 x 10 cm; 0,5 kg  
M-1000356

**C. Flat Foot (Pes Planus)**

12 x 24 x 10 cm; 0,4 kg  
M-1000355



**Hand and Wrist Anatomy Chart**

50 x 67 cm

Laminated M-1001476  
Paper M-4006659



**Foot and Ankle Anatomy Chart**

50 x 67 cm

Laminated M-1001480  
Paper M-4006662



**Internal Finger Structure Model**

This full-size model shows the bones, muscles and tendons of the human index finger. Delivered on wire support stand. 19,5 x 13 x 19 cm; 0,5 kg

M-1000350

▶ See more available charts on pages 140-145 and at **3bscientific.com!** ◀



► **Bestseller**

**Foot Skeleton with Ligaments and Muscles, 6-part**

Anatomically detailed model of the foot and lower leg with 6 removable parts for detailed study of the area. The model features not only the bones but also the muscles, tendons, ligaments, nerves, arteries, and veins. The frontal view features the extensor muscles of the lower leg. The tendons can be followed as they pass under the transverse and cruciate crural ligaments all the way to their insertion points. In addition, all tendon sheaths are visible. On the dorsal portion of the model the gastrocnemius muscle is removable to reveal deeper anatomical elements. The sole of the foot is represented in three layers; displaying the flexor digitorum brevis, quadratus plantae, the flexor hallucis muscle, and even deeper anatomical details. This model is the best of its kind in quality and value. 23 x 26 x 19 cm; 1,1 kg

**M-1000360**



**Foot Skeleton with Ligaments**

This detailed model displays numerous important ligaments and tendons including the Achilles and peroneus longus tendons of the ankle. The model consists of the foot bone and lower portions of the tibia and fibula, including the interosseous membrane found between them. 23 x 18 x 30 cm; 0,6 kg

**M-1000359**



**Hand Skeleton with Ligaments**

This 3-part hand model shows the anatomical detail of the ligaments and tendons found on the hand, wrist, and lower forearm. The interosseous membrane between the radius and ulna is shown along with the bones of the hand. The flexor retinaculum is removable and in addition there is a removable portion that can be fitted on the back of the model. This portion features the clinically important structures of the carpal tunnel such as the flexor retinaculum, median nerve, and tendons. 30 x 14 x 10 cm; 0,3 kg

**M-1000357**



**Hand with Ligaments**

This single-part model shows the anatomy of the ligaments in the hand in detail. It is ideally suited both as a teaching aid as well as for anatomy classes, such as for medical students, physiotherapists and occupational therapists. The carpals (ossa carpi), the metacarpals (ossa metacarpi) and finger bones (ossa digitorum manus) are shown as osseous structures. In the distal area of the forearm, the radius and the ulna are represented.

**M-1013683**



► **Bestseller**

**Hand Skeleton with Ligaments and Muscles**

The bones, muscles, tendons, ligaments, nerves, arteries, and veins are all featured in this high quality 4-part model. The dorsal side of the hand shows the extensor muscles as well as portions of the tendons at the wrist as they pass under the extensor retinaculum. The palmar face of the hand is represented in three layers, the first two are removable to allow for detailed study. The deepest anatomical layer allows for study of the intrinsic muscles and deep palmar arterial arch in addition to other details of the anatomy of the hand. 33 x 12 x 12 cm; 0,4 kg

**M-1000358**

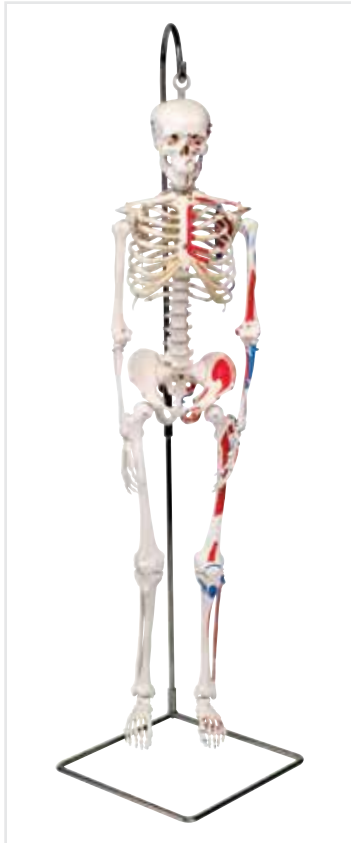


## Incredible detail & fully articulating joints!

### Shorty the Mini Skeleton

3B Scientific engineers have optimized the process of reproducing miniatures keeping all anatomical details and structures, even at a portion of natural size (80 cm). The skull can be removed and disassembled into 3-parts. Made from durable, unbreakable plastic, hand assembled.

94 cm; 1,7 kg  
M-1000040



### Shorty with Painted Muscles

Like M-1000040, but with painted muscle insertions (blue) and origins (red). The stand can be either placed on the floor or be attached to a wall. 94 cm; 1,7 kg

M-1000045

### Shorty with Pelvic Mount, on removable base

94 cm; 1,7 kg

M-1000039

## Shorty with Painted Muscles, Pelvic Mounted

Like M-1000039, but with numbered muscles, muscle origins (red), and insertions (blue) painted on the left half and a pelvic mounted stand. 94 cm; 1,7 kg

M-1000044



## Mini Vertebral Column, Flexible, on Stand

Model with occipital plate of the skull, sacrum, coccyx, and intervertebral discs. The vertebral column is flexibly mounted to demonstrate natural movements and pathological changes. On a detachable stand. 44 cm; 0,25 kg.

- Scaled down replicas are big on details
- Lightweight for easy transport
- Compact when space is a concern

M-1000043

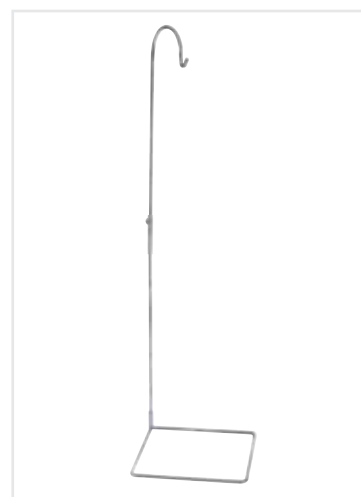
## More than measures up to the competition!



### Mini Skull, 3-part

Our mini skull precisely depicts all anatomical structures down to the last detail. Use it for education or as an office decoration. Can be disassembled into skullcap, base of skull, and mandible. 10 x 8 x 8 cm; 0,1 kg

M-1000041



### Multifunctional Spinal Column Stand, 3-part (skeleton not included)

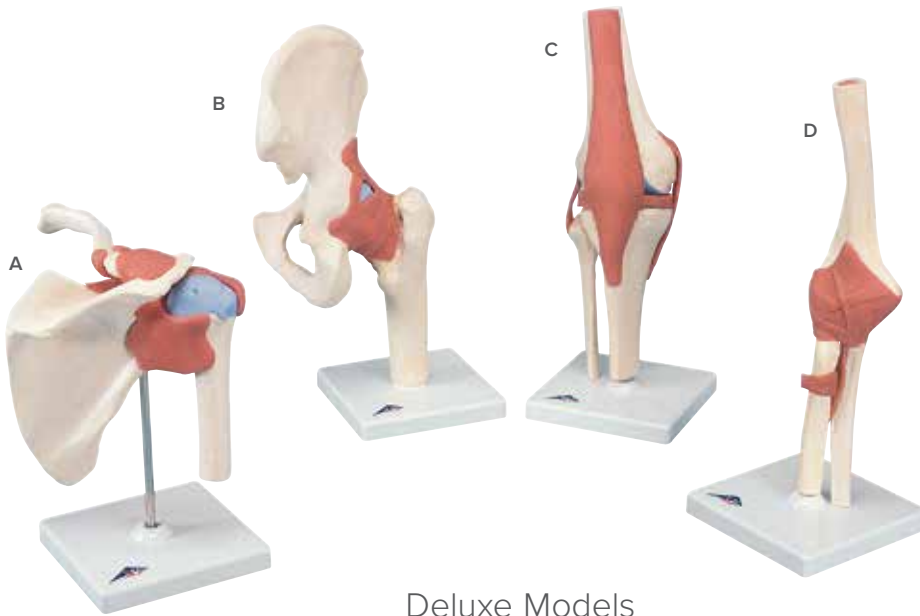
Dual purpose stand serves double duty; place it on a desk, the floor, or hang on a wall. Your choice! 0,75 kg

M-1000132

## Study the four major joints!

### Deluxe Functional Joint Models

These high-quality functional models of naturally-sized right joints with ligaments show the anatomy and possible physiological movements (e.g. abduction, anteversion, retroversion, internal and external rotation) in exceptional detail. The colour of the natural-cast bones is extremely realistic. The cartilage on the joint surfaces is marked blue.



Deluxe Models

#### A. Functional Shoulder

22 cm; 0,4 kg

M-1000160

#### B. Functional Hip

32 cm; 0,56 kg

M-1000162

#### C. Functional Knee

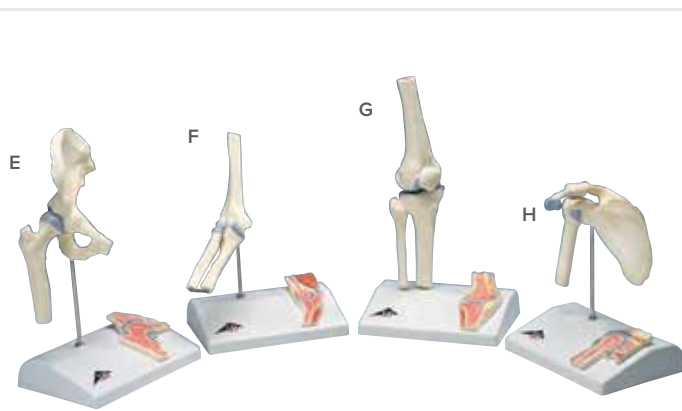
32 cm; 0,56 kg

M-1000164

#### D. Functional Elbow

33 cm; 0,28 kg

M-1000166



Mini Series

### 3B Scientific® Mini Joint Series with Cross-Section

These mini-joints have been reduced to half their natural size but have kept all of their functionality. In addition to the external anatomical structures, using the superb new joint cross-sections mounted on the base, educators now have the ability to explain what is happening from "within".

#### E. Mini Hip

16 x 12 x 20 cm

M-1000168

#### F. Mini Elbow

16 x 12 x 20 cm

M-1000174

#### G. Mini Knee

10 x 14 x 24 cm

M-1000170

#### H. Mini Shoulder

12 x 14 x 16 cm

M-1000172



Classic Models

### Classic Flexible Joint Models

Our classic joint models feature the same look and size as the deluxe models but without the natural bone colouring process and the blue paint representing cartilage.

#### I. Flexible Shoulder

16 x 12 x 20 cm

M-1000159

#### J. Flexible Hip

17 x 12 x 33 cm

M-1000161

#### K. Flexible Knee

12 x 12 x 34 cm

M-1000163

#### L. Flexible Elbow

12 x 12 x 39 cm

M-1000165

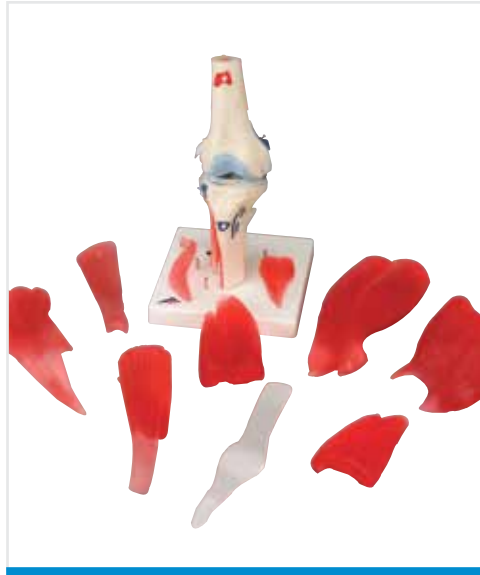
### Anatomy Flash Cards: The Human Skeletal System

- 303 individual cards organised by system
- Handy card format: DIN A7 (10,5 x 7,5 cm)
- Individual pictures for each bone
- Realistic idealized photos
- Highly-detailed illustrations
- 360° view of each bone
- Optimised for effective learning and understanding
- High-quality printing on durable cardstock
- Clearly organised – compact – highly effective

M-1003743







#### Muscle Knee Joint, 12-part

Shows different removable muscles and muscle portions of the knee area. Colour coded and raised areas indicate the muscle origin and insertion points on the femur, tibia, and fibula. In addition parts of the fibular and tibial collateral ligaments are represented. All the muscles of the leg are easily removable to permit study of the deeper anatomical layers. 33 x 17 x 17 cm; 0,9 kg

**M-1000178**



#### Elbow Joint with Removable Muscles, 8-part

The right elbow of a male with individual muscles plus muscular origins and insertions on the humerus, radius, and ulna. For didactic reasons, the areas of the muscular origins (red) and insertions (blue) are raised and colour-coded. The muscles can be attached to and removed from the corresponding areas of origin and insertion. 25 x 41 x 25 cm

**M-1000179**



#### Sports Shoulder with Rotator Cuff, 5-part

This model comprises the upper half of the humerus, the clavicle and the shoulder blade. The muscles of the rotator cuff (subscapularis muscle, supraspinatus muscle, infraspinatus muscle, teres minor muscle) are displayed and the sites of origin and insertion of the shoulder muscles are highlighted in colour (origin = red; insertion = blue). By removing the four individual muscles, all movements of the shoulder joint can be performed. 18 x 18 x 24 cm; 0,85 kg

- Abduction
- Adduction
- Inward rotation
- Outward rotation
- Anteversion
- Retroversion
- Elevation
- Circumduction

**M-1000176**



#### Hip Joint with Removable Muscles, 7-part

Right hip joint of an adult male with the individual muscles as well as the muscle origins and insertions on the femur and the hip bone. For educational purposes, the origin (red) and insertion areas of the muscles (blue) have been raised and presented in colour. The hip muscles have been mounted on their corresponding regions of origin and insertion and are thus removable. 18 x 32 x 18 cm

**M-1000177**



#### Femoral Fracture and Hip Osteoarthritis

At half natural-size, this model shows the right hip joint of an elderly person. Shown are the femoral fractures that occur most commonly as well as typical wear and tear of the hip joint. Also, a frontal section through the femoral neck is shown in relief on the base. On stand. 14 x 10 x 22 cm; 0,3 kg

**M-1000175**



#### 5-Stages of Vertebral Degeneration

The model illustrates degenerative changes to the vertebral bodies and intervertebral discs of the lumbar spine in various degrees. Based on the original cast of a human lumbar spine, even the finest bone structures are accurately depicted. The model can be disassembled into vertebrae and intervertebral discs. Visit [3bscientific.com](http://3bscientific.com) for representational conditions. Supplied on base. 22 cm; 0,5 kg

**M-1000158**



#### A graphic illustration of the loss of bone mass!

#### Deluxe Osteoporosis Model

Consists of three medially divided lumbar vertebrae with intervertebral discs. The upper section shows healthy bone structure, the middle section osteoporotic bone structure, and the lower section advanced osteoporotic bone structure with flattened plates, deformation and decreased mass. For detailed study the vertebrae can be removed from the stand. 16 cm; 0,25 kg

**M-1000153**

#### Anatomical Lifting Manikin

This functional figure provides a graphic demonstration of how the human spinal column reacts when heavy objects are lifted correctly and incorrectly. The manikin will lift a weight from either of two positions marked on the base. If the correct posture is used, the spine is undistorted. Incorrect posture exhibits obvious stress and distortion to the lumbar spine. Anatomical illustrations of the spine are featured on the base. Includes booklet with information. 28 x 21 x 21,5 cm; 1,4 kg

**M-1005101**



#### Sectional Spinal Columns



#### Cervical Section

Consisting of occipital plate, the 7 vertebrae with discs, cervical nerves, vertebral arteries and spinal cord. On stand. 19 cm; 0,3 kg

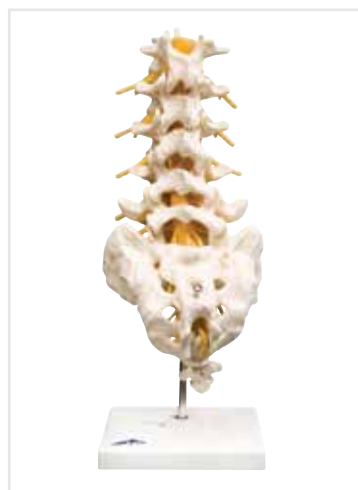
**M-1000144**



#### Thoracic Section

Consisting of the 12 thoracic vertebrae with discs, thoracic nerves and spinal cord. Flexibly mounted on stand. 32 cm; 0,5 kg

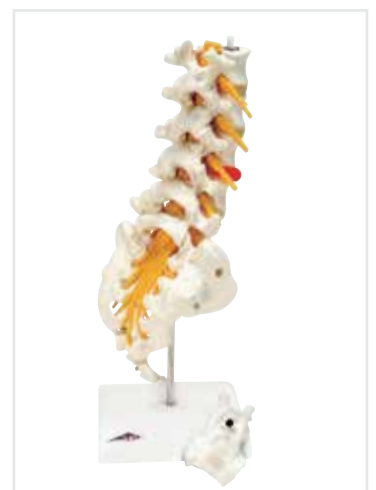
**M-1000145**



#### Lumbar Section

Consisting of the 5 lumbar vertebrae with discs, sacrum with flap, coccyx, spinal nerves and spinal cord. On stand. 34 cm; 0,6 kg

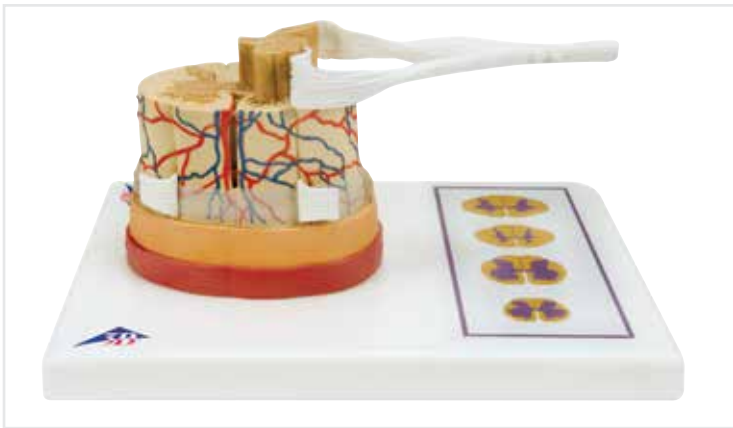
**M-1000146**



#### Prolapsed Lumbar Section

The lumbar model includes a prolapsed intervertebral disc between the 3rd and 4th lumbar vertebrae. 34 cm; 0,55 kg

**M-1000150**

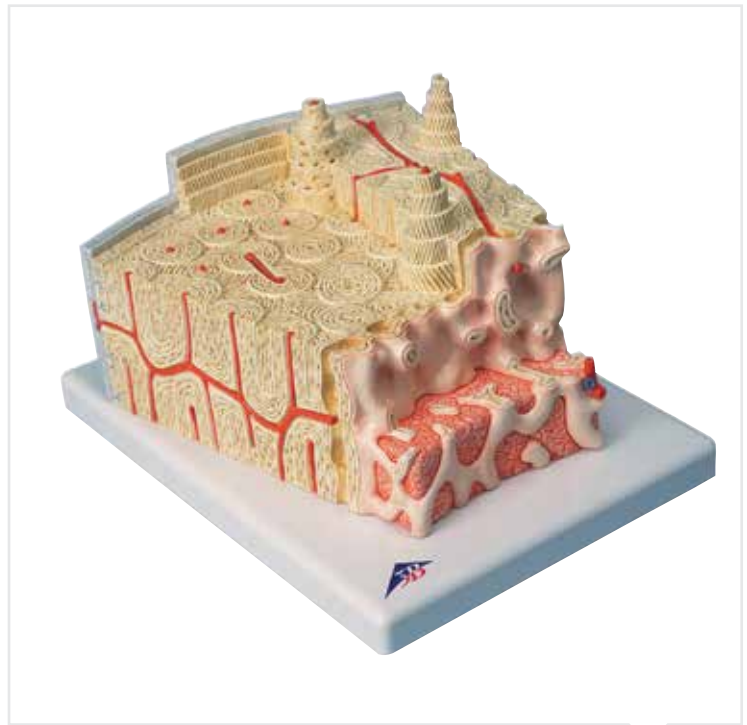


### Spinal Cord with Nerve Endings

The construction of the spinal cord is shown through accurate representations of grey and white matter, fissures, nerve roots, the spinal ganglia, the spinal nerve with its four branches, and the three layers of the spinal column. The model is mounted on a base which has illustrations comparing cross sections from the cervical, thoracic, lumbar and sacral regions of the spinal column. The regions illustrated on the pedestal are colour coded, numbered and explained in an accompanying product manual. 26 x 19 x 13 cm; 0,4 kg

M-1000238

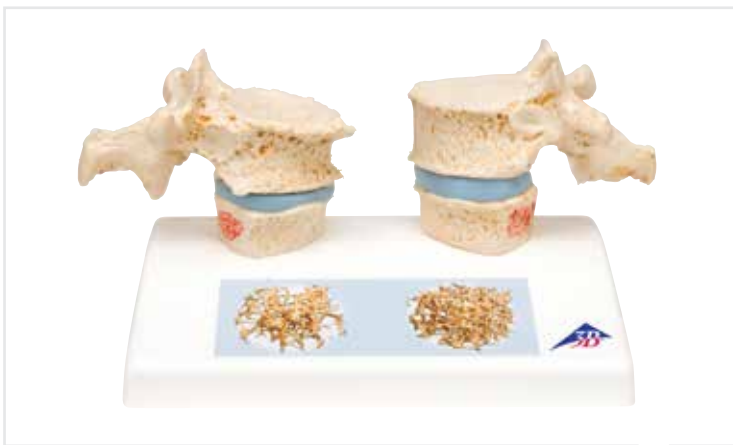
5 times life-size!



### MICROanatomy™ Bone Structure Model, enlarged 80 times

This model depicts a section of lamellar bone, showing the typical structure of tubular bone. Planes are shown in cross and longitudinal section through all levels of the bone and bone marrow. Typical elements are easily identified and help in understanding the structure and function of the Haversian systems. This representation graphically illustrates the individual bone components including spongy and compact substance, endosteum, cortical substance, osteocytes, Volkmann and Haversian canals. 26 x 19 x 14,5 cm; 0,8 kg

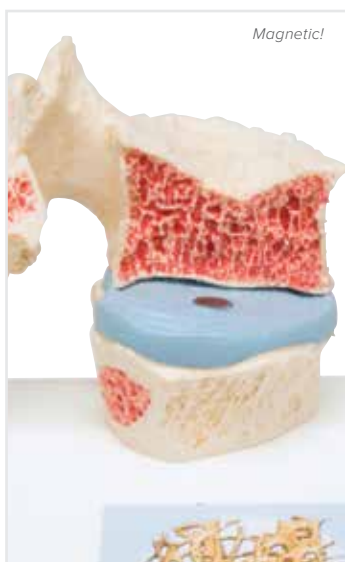
M-1000154



### Osteoporosis Model

Impressive didactic model for comparing osteoporotic and normal thoracic vertebrae. Ideal for medical studies and patient consultation. Reproductions of osteoporotic thoracic vertebrae with narrower intervertebral disc are located on the left of the stand. Two corresponding healthy vertebrae with intervertebral disc are provided on the right side. The upper vertebra is divided in the middle. The magnetically attached vertebral half can be removed easily to show the cut surfaces. A detailed illustration on the base depicts two 3D micro CT images obtained from bone biopsies.

M-1000182



### Lumbar Spinal Column with Prolapsed Intervertebral Disc

Natural casts of L4 and L5 lumbar vertebrae with paired spinal nerves, spinal cord and two interchangeable intervertebral discs. The discs illustrate either central or dorso-lateral prolapse. Dissects into 5 parts. On stand, removable. 26 x 19 x 14,5 cm; 0,27 kg

M-1000149

#### A. Three Lumbar Vertebrae, flexibly mounted

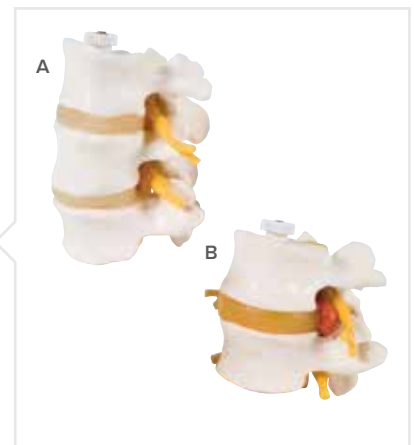
Anatomically correct to the last detail. Flexibly mounted with spinal nerves and spinal cord. 11 cm; 0,15 kg

M-1000151

#### B. Two Lumbar Vertebrae with Prolapsed Disc

Flexibly mounted with spinal nerves and spinal cord. 9 x 11 x 9 cm; 0,15 kg

M-1000152





**What is BONElike™?**

3B Scientific® BONElike™ material looks and feels like real bone. Each bone is a unique original cast of natural human bone with realistic weight, feel and appearance. The finest anatomical structures are presented in extreme detail with realistic texture, colour, and the porous characteristics of real human bone. They make excellent substitutes for real bone, which can be hard to obtain for ethical reasons. Great for use in medical teaching settings and in patient consultation.

**A. BONElike™ Flexible Vertebral Column**

This true-to-life model of the human vertebral column is an excellent example of BONElike™ quality. This original, natural reproduction shows all anatomical details and has the realistic weight and feel of natural bone. Consists of the male pelvis and occipital plate. Occipital plate and atlas can be detached individually. Without stand. 85 cm; 1,5 kg

M-1000157

**B. 3B Scientific® BONElike™ Youth Vertebral Column**

This true-to-life anatomical replica of the vertebral column of a child of about 5 years old is especially interesting for those working in the areas of anatomy, paediatrics, orthopaedics and paediatric radiology. The unique material of the spine model makes it almost visually indistinguishable from a real vertebral column.

The flexible vertebral column including occipital plate, pelvis and sacroccyx is mounted on a stand. Within the spinal canal, the spinal cord with cauda equina and exiting nerve roots are represented in flexible material. See [3bscientific.com](http://3bscientific.com) for more information.

M-1000118



**Complete™ Vertebrae Set of 24**

Worldwide unique set of original anatomical replica of a human vertebrae with the most precise illustration of even the finest anatomical structures of the vertebrae, exhibiting excellent quality. A complete set of 24 unmounted vertebrae delivered in a padded, easy-carry storage and travel case. 41 x 40 x 12 cm; 2,4 kg

M-1000156



**BONElike™ Vertebrae Sets**

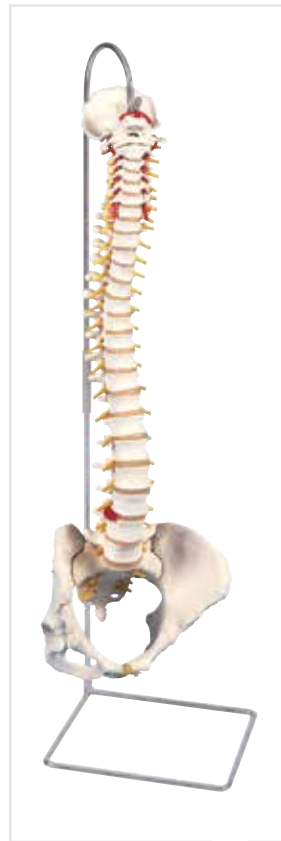
Nowhere else in the world can you find these realistic, high quality casts of original bones. They show even the finest anatomical structures in great detail. Supplied on a base. 30 x 21 x 6 cm; 0,2 kg

**C. BONElike™ Cervical Vertebrae Set of Seven**

M-1000021

**D. BONElike™ Lumbar Vertebrae Set of Five**

M-1000155



#### Flexible Spine with Soft Intervertebral Discs

This unique spine shows how the discs deform during normal and abnormal positioning. Use it to demonstrate any number of pathological conditions such as scoliosis, lordosis, kyphosis, or subluxations. Herniation can be demonstrated with compression. Includes spinal cord and spinal nerves. Comes with its own removable stand.

26 x 25 x 90 cm; 3 kg

M-1008545

#### Classic Flexible Spine

Our most popular spine for education is also our most affordable. Fully flexible and designed for hands-on demonstrations. Stand is not included, please see M-1000132. 74 cm; 1,8 kg

#### Contains these features:

- Full pelvis and occipital plate
- Fully flexible mounting
- L3-L4 disc prolapsed
- Spinal nerve exits
- Cervical vertebral artery
- Male pelvis

M-1000121

#### Classic Flexible Spine with Female Pelvis

All other features as M-1000121. 74 cm; 1,8 kg  
M-1000124



#### Deluxe Flexible Spine

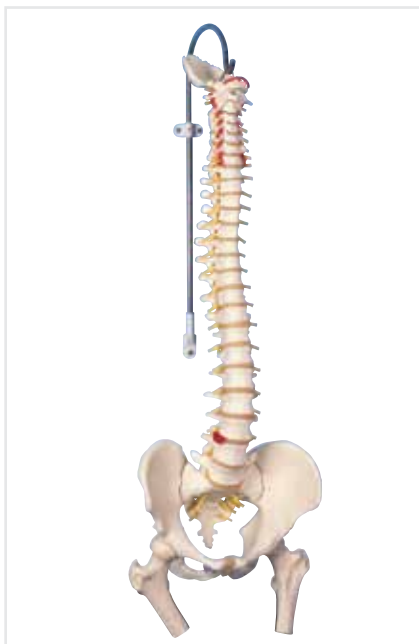
Additionally to all features of the Classic Spine Series our Deluxe Spine has a sacral opening and exposed brainstem for advanced studies. Stand is not included, please see M-1000132. 74 cm; 1,8 kg

#### Other features are:

- Full pelvis and occipital plate
- Fully flexible mounting
- L3-L4 disc prolapsed
- Spinal nerve exits
- Cervical vertebral artery
- Male pelvis
- Cauda equine

M-1000125

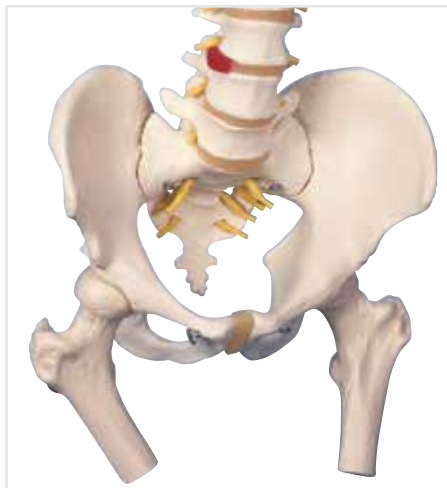
Use the Spine Guide on pages 28-29 to easily compare all features or visit [3bscientific.com](http://3bscientific.com) for more details.



#### Classic Flexible Spine with Femur Heads

Same features as M-1000121, additionally with femur heads. 83 cm; 2,1 kg

M-1000122



#### Classic Flexible Spine with Femur Heads and Painted Muscles

Painted spines add a new dimension to demonstrations. Muscle origins (red) and insertions (blue) are painted on left innominate, femur and vertebrae. Same features as M-1000121. Stand is not included, please see M-1000132. 83 cm; 2,1 kg

M-1000123



**Classic Flexible Spine with Ribs and Femur Heads**

83 cm; 3 kg  
M-1000120



**Muscled Spine**

Easily demonstrate the relationship between bones and muscles to students and patients. Muscles are made of soft polyurethane rubber and are attached with a sturdy elastic cord for precise demonstrations. Stand is not included.

M-1018411



**Highly Flexible Spine with Femur Heads**

All other features as M-1000130.  
83 cm; 2,3 kg

M-1000131



**Deluxe Flexible Spine with Femur Heads**

Additionally to all features of the Classic Spine Series, our Deluxe Spine has a sacral opening and exposed brainstem for advanced studies. 83 cm; 2,3 kg

**Other features are:**

- Full pelvis and occipital plate
- Fully flexible mounting L3-L4 disc prolapsed
- Spinal nerve exits
- Cervical vertebral artery
- Cauda equine

M-1000126



**Deluxe Flexible Spine with Femur Heads and Painted Muscles**

Painted spines add a new dimension to demonstrations. Muscle origins (red) and insertions (blue) are hand-painted on left innominate, femur and vertebrae. For further information see M-1000125. 83 cm; 2,1 kg

M-1000127

**Didactic Flexible Spine with Femur Heads (not shown)**

All other features as M-1000128. 82 cm; 2,1 kg

M-1000129



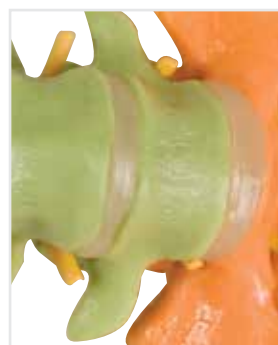
► **Bestseller**

**Highly Flexible Spine**

The last spine you will ever need! With male pelvis, occipital plate, vertebral artery, spinal nerve exits and a dorsolateral disc prolapse between the 3rd and 4th lumbar vertebrae. Specially mounted on a flexible, durable hose providing extra stability. Ideal for regular active use, such as in schools. Stand is not included.

M-1000132. 74 cm; 1,4 kg

M-1000130



**Didactic Flexible Spine**

This superb didactically painted spinal column has the same anatomical features as the M-1000121. Use this spinal column for simplified patient education or for lessons in a classroom environment in which the didactic colouring helps reinforce the explanation, even from a distance. Stand is not included, please see M-1000132. 74 cm; 2 kg

**Differentiated by colour are the 5 different sections of the spinal column:**

- 7 Cervical vertebrae
- 12 Thoracic vertebrae
- 5 Lumbar vertebrae
- Sacrum
- Coccyx

M-1000128



# Spine Comparison Guide

This is an overview of all spine models and their functions. All of the 3B Scientific® spines are hand assembled and made from durable, unbreakable plastic.

| Feature                                     | A18/20 | A18/21 | A58/6 | A58/7 | A58/8 | A58/9 | A59/1 | A59/2 | VB84 |
|---|--------|--------|-------|-------|-------|-------|-------|-------|------|
| Top quality natural casting                 | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| Final assembly done by hand                 | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| Durable, unbreakable synthetic material     | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| Natural size                                | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| Soft intervertebral discs                   | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| L3-L4 slipped disc                          |        |        | •     | •     | •     | •     | •     | •     | •    |
| Flexible spine                              | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| Muscle insertions and origins, hand-painted |        |        |       | •     |       |       |       |       |      |
| Spinal nerves and vessels                   | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| Almost natural movement of the hip          |        |        | •     | •     |       | •     |       | •     |      |
| Male pelvis                                 | •      | •      | •     | •     | •     | •     | •     | •     | •    |
| Female pelvis                               |        |        |       |       |       |       |       |       |      |
| With Ribcage                                |        |        |       |       |       |       |       |       |      |
| With Femur Heads                            |        |        | •     | •     |       | •     |       | •     |      |
| 3B BONElike™                                |        |        |       |       |       |       |       |       |      |

| Model  | Item No.  |
|--------|-----------|
| A18/20 | M-1000042 |
| A18/21 | M-1000043 |
| A58/8  | M-1000128 |
| A58/6  | M-1000126 |
| A58/9  | M-1000129 |
| A59/1  | M-1000130 |
| A59/2  | M-1000131 |
| A58/7  | M-1000127 |
| VB84   | M-1008545 |

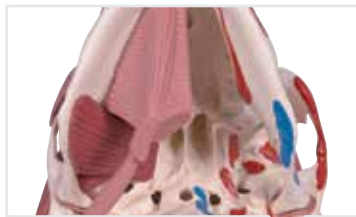
| A52 | A56/2 | A58/3 | A58/4 | A58/1 | A58/2 | A58/5 | A794 |
|-----|-------|-------|-------|-------|-------|-------|------|
| •   | •     | •     | •     | •     | •     | •     | •    |
| •   | •     | •     | •     | •     | •     | •     | •    |
| •   | •     | •     | •     | •     | •     | •     | •    |
| •   | •     | •     | •     | •     | •     | •     | •    |
| •   | •     | •     | •     | •     | •     | •     | •    |
|     | •     | •     | •     | •     | •     | •     |      |
|     | •     | •     | •     | •     | •     | •     | •    |
|     | •     | •     | •     | •     | •     | •     |      |
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▼  
 The backbone of anatomy is 3B Scientific's speciality! The human spine models are available in a variety of options. For more details visit [3bscientific.com](http://3bscientific.com).



| Model | Item No.  |
|-------|-----------|
| A58/1 | M-1000121 |
| A58/2 | M-1000122 |
| A58/4 | M-1000124 |
| A58/3 | M-1000123 |
| A58/5 | M-1000125 |
| A52   | M-1000118 |
| A56/2 | M-1000120 |
| A794  | M-1000157 |

NEW



► **Bestseller**

**Classic Skull, 3-part**

The 3-part standard version M-1000046 is a first choice for basic anatomical studies or an attractive medical gift. Alternatively, choose one of the more advanced versions with enhanced anatomical structures such as muscle origins/insertions, hand-numbered bones and structures, or a supplementary complete 5-part brain for more complex studies.

20 x 13.5 x 15,5 cm; 0,6 kg

M-1000046

**Skull with Facial Muscles**

The face and mastication muscles are illustrated on the right half of this skull model. The face musculature can be easily and precisely be differentiated from the mastication musculature by using two colours. On the left half the muscle origins and insertions are marked with colours (origin: red, insertion: blue). The jaw is movable and due to the flexible musculature the rudimentary chewing motion can be demonstrated. Cranium and m. masseter are detachable. 18 x 18 x 25 cm; 1,08 kg

M-1013283



**Life like detail!**

**Classic Skull, Numbered, 3-part**

Hand-detailed version of our Classic Skull. Hand-numbered bones and features plus highlighted suture lines of the bony plates for ease in identifying all important anatomical structures. Includes product manual with key to numbered structures.

20 x 13.5 x 15.5 cm; 0.7 kg

M-1000052

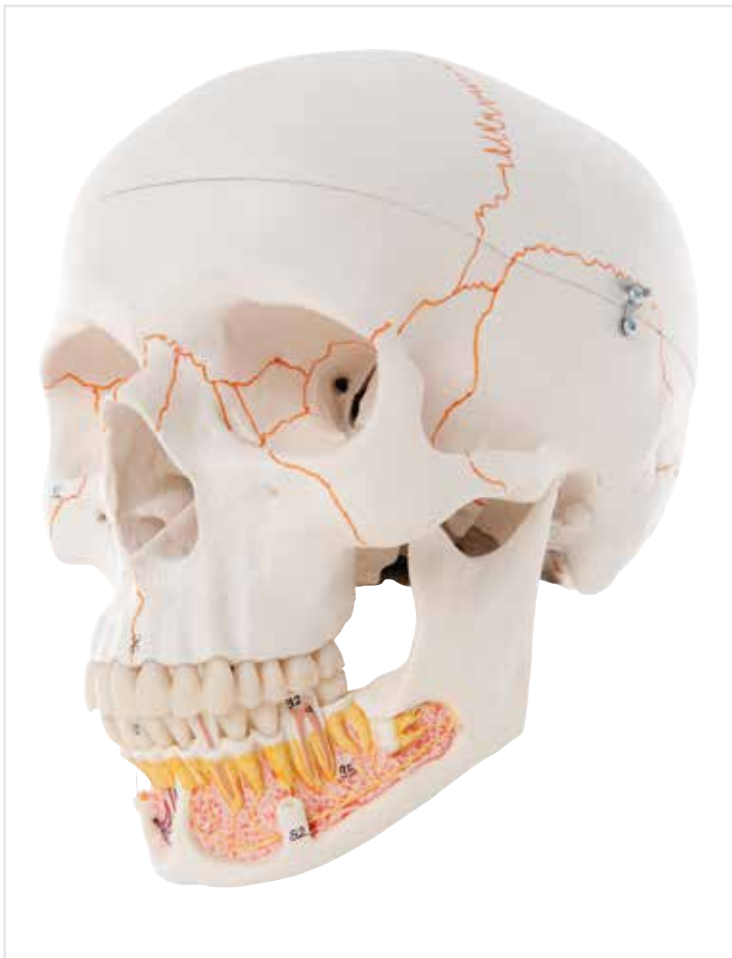


**Classic TMJ Skull with Masticatory Muscles, 2-part**

Ideally suited for patient education, allied health instruction, anatomy studies, and as a medical-legal visual aid. This version of our Classic Skull has the masticatory muscles (masseter, temporal, medial and lateral pterygoid muscles) represented as elastic bands. Demonstrate the function of the masticatory muscles with jaw occlusion, the initial stage of jaw opening and the movements of the mandible to the side and front. The skullcap is removable. 0.7 kg

M-1000056





**Classic Skull with opened Lower Jaw, 3-part**

In this highly detailed skull, the mandible is opened to show the dental roots with vessels and nerves. The cranial bones, bone components, fissures, foramina and other structures are numbered. The cranial sutures are shown in colour, as are the meningeal vessels and venous sinuses. Over 100 features are identified in the accompanying product manual.

20 x 13.5 x 15,5 cm; 0,7 kg

M-1000053



**Classic Skull, Painted, 3-part**

The muscle origins (red) and insertions (blue) are shown in colour on the left side of the skull. Cranial bones and structures are numbered on the right side. The skull identifies over 140 anatomical elements.

20 x 13,5 x 15,5 cm; 0,7 kg

M-1000055



**Save when you purchase skull with brain model!**

**Classic Skull with soft 5-part Brain**

All the features of Classic Skull M-1000046 with a supplementary 5-part brain. This skull can be disassembled into skull cap, base of skull, and mandible. 20 x 13,5 x 15,5 cm; 1,2 kg

**The components of its left half are:**

- Frontal lobe and parietal lobe
- Temporal lobe and occipital lobe
- Ancephalic trunk
- Cerebellum

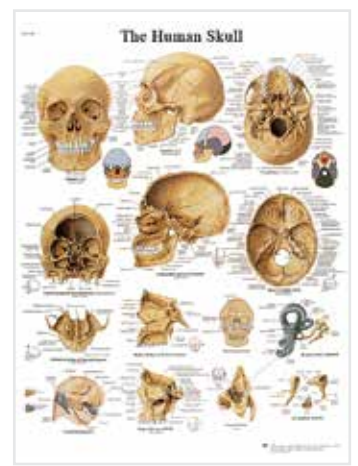
M-1000049



**Classic Skull, Painted, with opened Lower Jaw, 3-part**

Same features as M-1000055, with exposed jaw. 20 x 13,5 x 15,5 cm; 0,7 kg

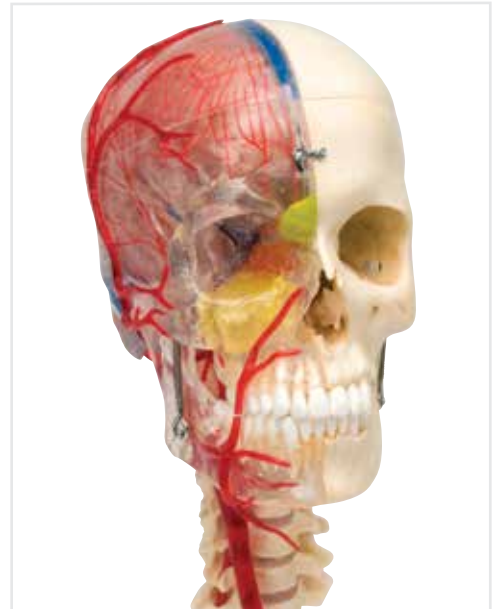
M-1000054



**Human Skull Chart**

50 x 67 cm

Laminated Paper M-1001474  
M-4006656



► **Bestseller**

**Beauchene Adult Human Skull Kit, 22-part**

The human skull consists of many individual bones that gradually grow together as the development proceeds. The best selling 3B Scientific® Human Skull Kit is a natural cast and makes the complex anatomical structure of the skull easy to understand, since it can be disassembled into its 22 individual bones. The individual bones can be reassembled by means of inconspicuous, stable connectors attached at the slightly simplified skull sutures. The 22 bones are depicted in 9 different didactic colours so that the individual skull bones are easy to distinguish. Each pair of bone plates has the same colour. The individual bones included are listed online. 21 x 14 x 16 cm; 0,7 kg

M-1000069

**Beauchene Adult Human Skull Kit, 22-part (not shown)**

The same as M-1000069, but in natural bone colour.

M-1000068

**BONElike™ Deluxe Didactic Skull, 7-part**

On the transparent half, the paranasal sinuses are marked in different colours as are the cranial sinuses and the neck and face arteries. One skull half visualizes the brain position and the course of the sinuses. The periodontal pockets can be viewed through the transparent jaw. The lower jaw demonstrates masticatory movements. The skull can be disassembled into both halves of the skullcap, the left half of the base of skull, the nasal septum, the complete mandible and a brain half. 18 x 18 x 34 cm; 0,86 kg

M-1000064



**Transparent Classic Skull, 3-part**

Use this unique skull to study internal structures that otherwise are visible only through x-ray images. 20 x 13,5 x 15,5 cm; 0,6 kg

M-1000051

**BONElike™ Half Transparent Skull, 8-part**

A unique way to study the internal and external anatomy of the skull. One half is transparent and the other is bony. It offers a topographic comparison of structures that are not visible in other skull models. The teeth can be taken out and the outer masticatory muscles are represented on the bony skull half. The skull can be disassembled into two halves. 16 x 14 x 20,5 cm; 0,54 kg

M-1000063

**BONElike™ Human Bony Skull, 6-part**

An outstanding skull for studies of the bony structure and complex anatomy of the human skull. This version shows a complete skull in median-sagittal section. It can be disassembled into two halves consisting of: 1) the calvarium and the base of the skull, and 2) the nasal septum and complete mandible. For a demonstration of masticatory motion, the mandible is mounted flexibly. 16 x 13,5 x 20,5 cm; 0,5 kg

M-1000062



#### Didactic Skull on Cervical Spine, 4-part

Especially useful to demonstrate the specialised role of the atlas and axis; this model uses 19 didactic colours to demonstrate the shapes and relationships of the various bone plates of the skull. Flexibly mounted on the cervical spine (C1, C2 and C7 are coloured), this model also exhibits the hindbrain, spinal cord, spinal nerves of the cervical spine, vertebral arteries, basilar artery and rear cerebral arteries. Mounted on a stand. 17,5 x 17,5 x 30 cm; 0,6 kg

M-1000048

**Exceptional teaching tool!**



#### ► Bestseller

#### Skull on Cervical Spine, 4-part

Especially useful to demonstrate the specialized role of the atlas and axis; this flexibly mounted version arrives with a stand and includes the entire cervical spine. In addition to the skull with movable jaw and seven cervical vertebrae, are representations of the hindbrain, spinal cord, cervical nerves, vertebral arteries, basilar artery and rear cerebral arteries. 20 x 13,5 x 15,5 cm; 0,6 kg

M-1000047



#### Fetal Skull

Natural cast of a fetal head in the 30th week of pregnancy showing the characteristics of prenatal development. The fontanelles, which become bone over time, are clearly visible on the skull. Sutures will form along the bony plates helping fuse the skull as the individual ages. 14 x 9 x 9 cm; 0,15 kg

M-1000057



#### Microcephalic Skull

This one-part microcephalic skull has an alveolar abscess of the right maxilla with the canine tooth suspended in the abscess. The molars exhibit severe attrition. 27 teeth. Natural cast.

21 x 14 x 16 cm; 0,7 kg

M-1000065



#### Hydrocephalic Skull

The enlarged cerebral cranium is typical of this severe malformation. The skullcap of the one-part skull is partially covered by periosteum. The lower right canine and the right molar are decayed. Natural cast.

28 x 23 x 19,5 cm; 0,8 kg

M-1000066



#### Skull with Cleft Jaw and Palate

Severe malformation of the left skull half. The one-part skull has 29 teeth. Natural cast. 28 x 23 x 19,5 cm; 0,8 kg

M-1000067



#### Neurovascular Skull

A life-size adult skull with seven cervical vertebrae mounted upon a stand. The arteries are shown on one side and nerves on the other. Removing the skull cap exposes the main nerves and arteries on the floor of the cranium. The 12 cranial nerves and the distribution of their branches is also shown. 1,3 kg

M-1005108





## Anthropological Skulls

3B Scientific's range of anthropological skulls has been reissued in their entirety and the results are plain to see. All models are the **finest castings**, produced from scientifically made copies of specimens featured in the collection at the Institute of Anthropology and Human Genetics for Biologists at Johann Wolfgang Goethe-University, Frankfurt am Main, Germany. All details are reproduced with the utmost accuracy. Each **unique replica** comes with an attractive display pedestal containing a **relief map** of the geographical area where the specimen was found. A multi-lingual, detailed **information booklet** is included with each replica.

### La Chapelle-aux-Saints

#### *Homo (sapiens) neanderthalensis*

Discovered in France in 1908 this is one of the most controversial skulls to be excavated. Described as dull-witted, brutish and ape-like at the time; he was at least 40 years old, suffered from severe arthritis and had a misshapen face due to missing part of his jaw and many teeth. Despite these deforming conditions, it is now clear that the La Chapelle-aux-Saints man was much more like us in appearance than had been believed. Includes relief map of discovery location. 22 x 16 x 22,5 cm; 0,9 kg

M-1001294

### Sinanthropus

#### *Pithecanthropus pekinensis*

Discovered south west of Peking and estimated to be 400,000 years old. This specimen belongs to the genus *Homo erectus pekinensis* (*Sinanthropus pekinensis*) and is a typical example of early man. 21 x 14,5 x 21,5 cm; 0,9 kg

M-1001293

Specimens featured in the museum collection at the Institute of Anthropology and Human Genetics for Biologists.



**KNM-ER 406, Omo L. 7a-125**

High-quality cast of a reconstruction of the Kalvarium skull (KNM-ER 406) with a partial mandible (Omo L. 7a-125). The partial mandible comes from a different dig but is clearly from the same species. Discussions continue as to whether the specimen is an *Australopithecus boisei* or a *Paranthropus boisei*. Specimen was discovered at Lake Turkana, formerly Lake Rudolph in 1970 and was aged at approximately 1.7 million years. 18 x 18 x 22,5 cm; 0,8 kg

M-1001298



**Crô-Magnon  
*Homo Sapiens***

This wonderful casting is a reconstruction of an early hominid called Crô-Magnon man. The skull itself belonged to the species *Homo sapiens* from the ice age of the neo-Paleolithic era. This genus represents the earliest definitive modern human from Western Europe. 21,5 x 15 x 24,5 cm; 0,9 kg

M-1001295



**Steinheim  
*Homo (sapiens) Steinheimensis***

Found in 1933 in the area of Steinheim, Germany the skull was crushed on the right side, but once pieced together revealed some interesting characteristics. The face does not protrude as much as most Neanderthals. However, the brow ridges are somewhat thick. This mix of traits shows a transition from a primitive to a modern form. Believed to be a female from 25 to 35 years old. 19 x 12,5 x 21,5 cm; 0,7 kg

M-1001296

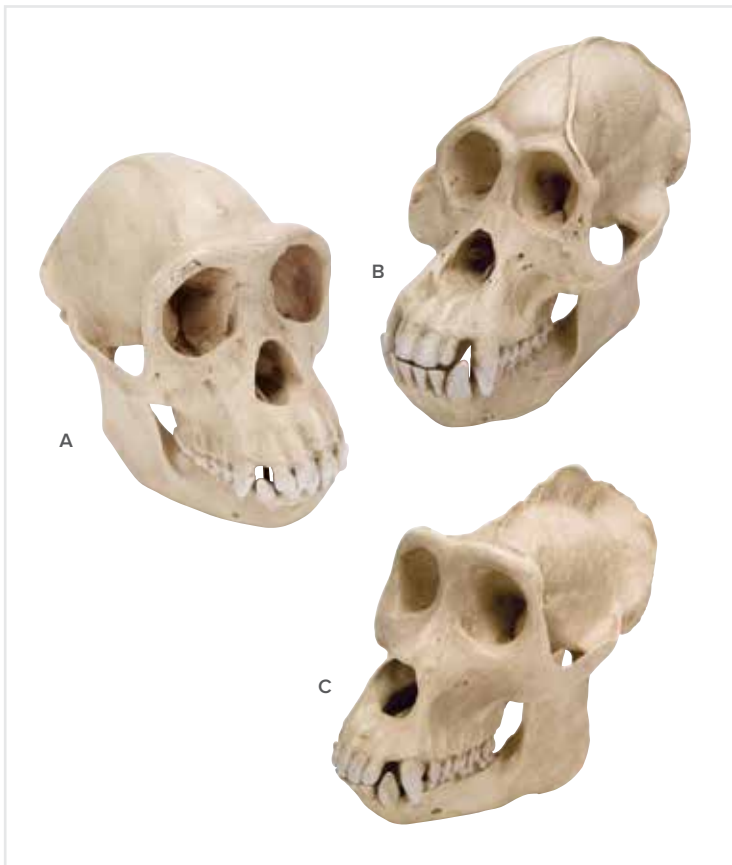


**Broken Hill or Kabwe  
*Homo Heidelbergensis***

Broken Hill is the first early human cranium fossil to be found in Africa (1921). Once thought to be less than 40,000 years old, an assumption later proven to be flawed, the skull is at least 125,000 years old, and is probably significantly older. Some researchers have proposed that Broken Hill may be a member of the African population from which all modern humans descended, although this cannot be definitively proven. 21 x 15,5 x 23,5 cm; 0,8 kg

M-1001297

▶ For more details visit [3bscientific.com!](http://3bscientific.com!) ◀



**Osteological Reproductions: Bone Clones® Hominid Series**

Each hominid was carefully researched and re-created based on casts made from the original fossils, the latest literature and full colour, life-size photographs, or some combination thereof. Every effort has been made to accurately re-create anatomical details of colour, size, shape, reconstructed areas, and bone/fossil texture, however, they are not intended for research purposes. The hominids offered in this series are high-quality recreations that can be advantageously used by educators as important visual aids in the classroom, and appreciated by the general public.

**A. Chimpanzee (Pan Troglodytes) Female Skull**

This Chimpanzee Skull model was cast from an original specimen from the collection of the Johann Wolfgang Goethe University of Frankfurt am Main, Institute of Anthropology and Human Genetics for Biologists. The chimpanzee (Pan troglodytes) skull is a great visual teaching tool for the anatomy of mammals. This animal skull is perfect for mammalogy and comparative anatomy studies. Its as close the genuine thing as you can get, for detailed anatomical study! 17 x 11,5 x 14 cm; 0,5 kg

M-1001299

**B. Orangutan (Pongo Pygmaeus) Male Skull**

The male orangutan (Pongo pygmaeus) replica is a skull cast of the highest quality, with accurate anatomical detail. This animal skull is a great addition to mammalogy studies as well as comparative anatomy and other anatomical lessons. 22 x 16 x 18 cm; 0,6 kg

M-1001300

**C. Gorilla Skull (Gorilla Gorilla) Male Skull**

This replica is a skull cast of high quality with anatomical detail true to nature. The gorilla skull is made of unbreakable plastic and has an anatomically correct movable lower jaw for easy demonstration of natural gorilla movement. This gorilla skull is great for mammalogy and comparative anatomy studies. Its a great tool for any biology classroom! 26 x 16,5 x 19,5 cm; 0,8 kg

M-1001301





**1/3 Life-Size Muscle Figure, 2-part**

In this desktop size version of the muscle torso all of the superficial musculature of the human form is accurately reproduced and detailed in life-like colours. The chest plate is removable to reveal the internal organs and the right side contains a female mammary gland. Over 125 hand-numbered and identified structures. Delivered on base. 57 x 25 x 18 cm; 2,1 kg  
M-1000212



**MICROanatomy™ Muscle Fibre**

Magnified approximately 10,000 times, this model illustrates a section of a skeletal muscle fibre and its neuromuscular end plate. The muscle fibre is the basic element of the diagonally striped skeletal muscle.  
23,5 x 26 x 18,5 cm; 1,2 kg

M-1000213



**Great for the desktop and personalised instruction!**

**MEDart™ Pregnancy Pelvis, 2-part**

This equally sophisticated and fine median section allows a view into the physiological world of a female pelvis in the 40th week of pregnancy. The removable foetus illustrates the position of the child in the womb shortly before the birth. 18,5 x 18,5 x 9 cm; 1,3 kg

M-1000370

**Superb Detail!**

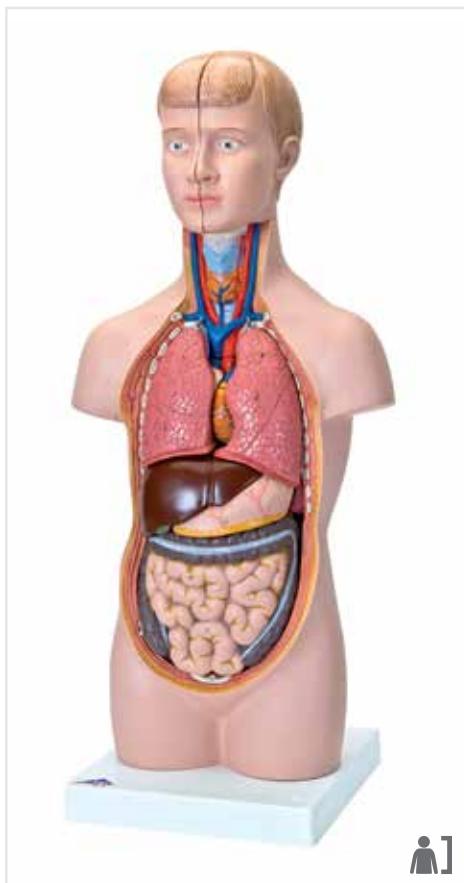
**Mini Torso, 12-part**

This mini masterpiece is half life-size so even small hands can quickly disassemble the torso. All parts are numbered and identified on the included product manual. 54 x 24 x 18 cm; 1,9 kg

**Removable parts include:**

- 2 Head halves
- Brain half
- 2-part Lung
- 2-part Heart
- Liver with gall bladder
- Stomach
- 2-part Intestinal tract

M-1000195



**MEDart™ Foot Series - Normal Foot, Flat Foot, Hollow Foot**

Simply irresistible, these miniatures show the superficial structures and, at the interior side, the bones, muscles and tendons in their correct anatomical position. 6 x 12 x 4,5 cm; 0,1 kg

Set of 3 M-1000371





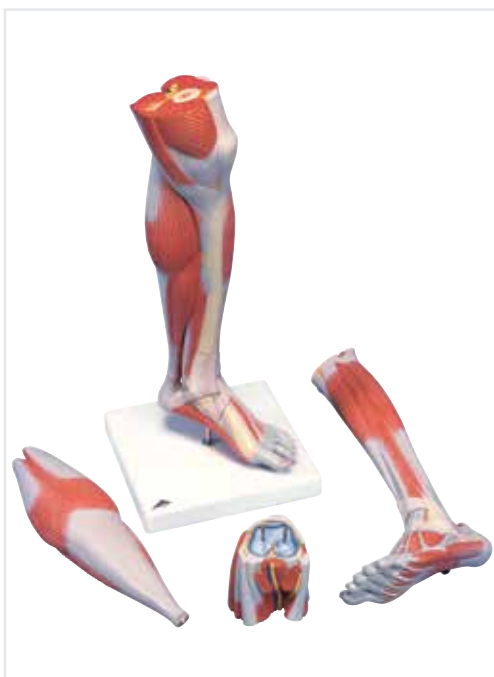
**3/4 Life-Size Muscle Arm, 6-part**  
 This model illustrates both the superficial and deeper muscles, five of which are removable. Tendons, blood vessels, nerves and bone components of the left arm and shoulder are shown in great detail. Parts numbered. Delivered on removable stand.  
 60 x 18 x 18 cm; 2 kg  
**M-1000015**



**Life-size Deluxe Muscle Arm, 6-part**  
*The following muscles can be detached in this life-size model:*

- Deltoid muscles
- Biceps muscle of arm
- Triceps muscle of arm
- Long palmar muscle with radial flexor muscle of wrist
- Brachioradial muscle with radial extensor muscle of wrist
- Supplied on base.

70 cm; 3 kg  
**M-1000347**



**Lower Muscle Leg with Knee, 3-part**  
 A unique feature of this life-size removable leg is a cross section through the knee for viewing this amazing joint. The gastrocnemius muscle can be detached. Supplied on a detachable base. 58 cm; 2,6 kg  
**M-1000353**



**Muscle Leg, 7-part**  
 This life-size model can be disassembled into upper and lower leg. Supplied on base.  
 100 cm; 7 kg

*The following muscles can be detached:*

- Long head of biceps femoris with semitendinous muscle
- Sartorius muscle
- Gluteus maximus muscle
- Rectus femoris muscle
- Gastrocnemius muscle

**M-1000352**



**3B Scientific® Human Musculature Oversized Wall Charts**  
 Printed on tear-resistant, waterproof paper with wooden rods so they are ready to hang. Accurately rendered scientific content. 84 x 200 cm; 0,5 kg

**A. Front Side**  
**M-1001149**  
**M-4006514**

**B. Back Side**  
**M-1001153**  
**M-4006516**

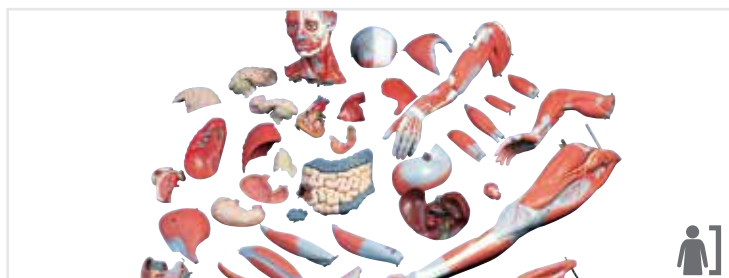
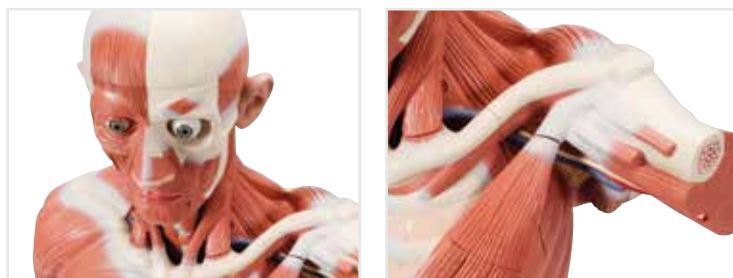


**► Bestseller**  
**Muscle Leg, 9-part**  
 Illustrating both the superficial and deeper muscles, eight of which are removable. Tendons, vessels, nerves and bone components of the left leg and foot are shown in great detail. Parts numbered. Delivered on removable stand.  
 77 x 26 x 26 cm; 4 kg  
**M-1000351**

**Each leg and arm muscle is supplied with removable stand!**



**NEW**  
Metal Stand with  
5 Castors!



## Genuine 3B Scientific® Product!

### Life-Size Male Muscle Figure, 37-part

This sophisticated model shows the deep and superficial musculature in great detail. Extraordinary accuracy makes this masterpiece a unique tool for instruction even in large lecture halls. Extra shipping charges may apply. 180 x 110 x 50 cm; 53 kg

#### The following parts can be removed for study:

- Skull cap
- 6-part brain
- Eyeball
- Breast/abdominal wall
- Both arms
- 2-part larynx
- 2-part lung
- 2-part heart
- Diaphragm
- 2-part Stomach
- Kidney
- Liver with gall bladder
- Bladder half
- Whole intestine system
- 2-part penis
- 10 muscles

M-1001235

### 3/4 Life-Size Dual-Sex Muscle Figure, 45-part

The finest teaching tool available! Standing over 4 1/2 feet tall, this 3/4 life-size human replica depicts deep and superficial musculature in addition to the body's major nerves, vessels, tissues and organs in exquisite detail. The internal organs are removable (45 pieces in all) to reveal the fundamental interrelationships of human morphology. Remove and view the details of 13 different muscles of the arms and legs and over 600 hand-numbered structures. This dual sex muscle figure version has interchangeable genital inserts and a female mammary gland. Hand-painted and mounted on a convenient roller base. Visit [3bscientific.com](http://3bscientific.com) for all removable parts and product manual. Extra shipping charges may apply. 138 x 50 x 32 cm; 12,4 kg

M-1013881

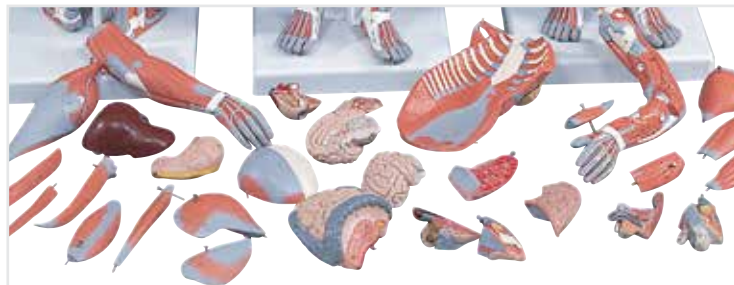
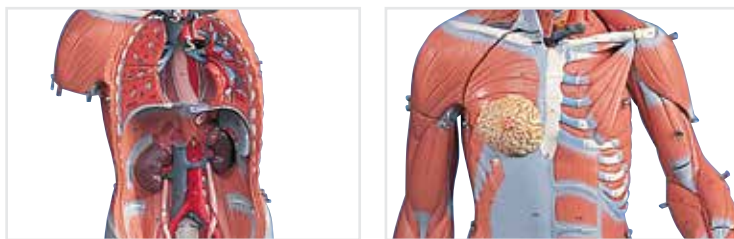
### 3/4 Life-Size Female Muscle Figure, 23-part

(please see [3bscientific.com](http://3bscientific.com) for more images)

This Female Muscle Figure provides the same quality characteristics as the model M-1013881 above but is delivered without internal organs, brain, and male genitalia providing for unobstructed study of the human musculature. Extra shipping charges may apply. 138 x 45 x 32 cm; 11.2 kg

M-1013882





### 1/2 Life-Size Complete Dual-Sex Muscle Figure, 33-part

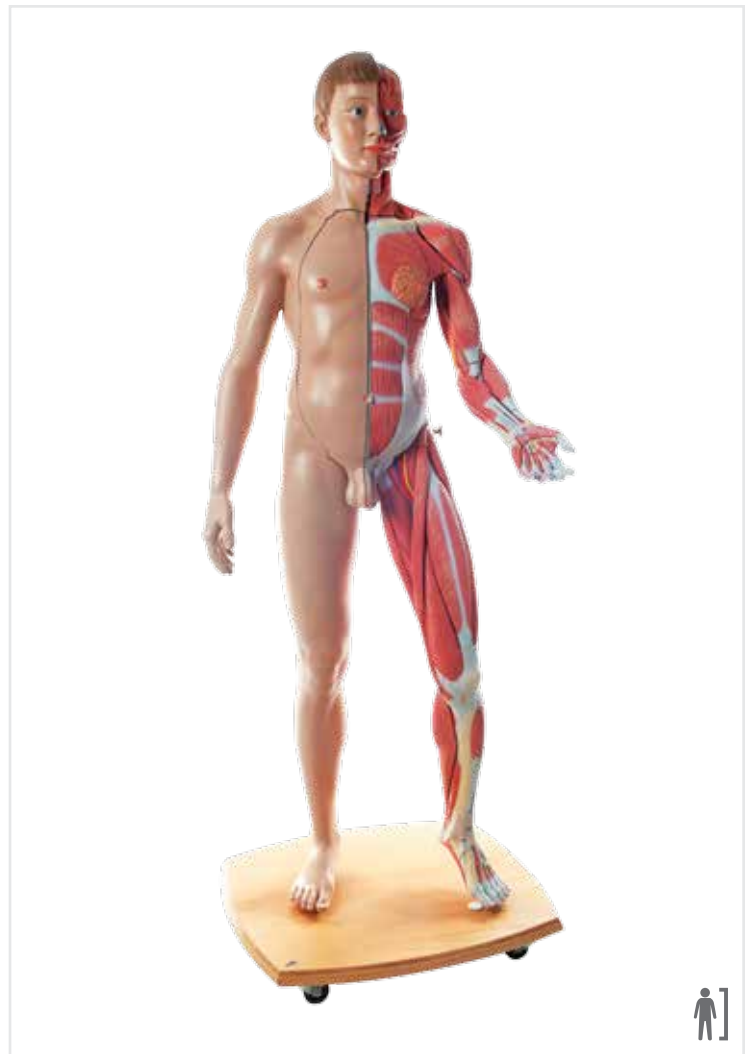
The complete human anatomy in a convenient size. This 84 cm high version of our deluxe muscle figure is a perfect choice for thorough demonstrations of human musculature and internal organs where space is a concern. Exquisitely hand-detailed and complete with 33 removable parts, this human muscular figure represents fine quality at a more affordable price. Painted by hand in realistic colours, this human anatomy model comes complete with stand and detailed multilingual product manual. Please see online for all removable parts. Extra shipping charges may apply. 84 x 30 x 30 cm; 5 kg

M-1000210

### 1/2 Life-Size Complete Female Muscle Figure, 21-part

Offering the same exceptional value as our model M-1000210, this version is delivered without internal organs, brain and male genitalia. Extra shipping charges may apply. 84 x 30 x 30 cm; 4.1 kg

M-1000211



### 39 amazingly detailed components!

#### Life-Size Dual-Sex 39-Part Human Figure

This life-size male/female model facilitates an understanding of human anatomy like no other model in the world! The dissectible human features a torso which has the skin removed from one half showing the underlying musculature of the chest, back, abdomen, head, and neck. The front wall of the torso detaches to reveal the inner structures and organs in tremendous detail. In all, 39 component parts can be dissected from the model. Comes with wooden roller base. Extra shipping charges may apply. 174 cm; 40.7 kg

#### All removable parts:

- 2-part head
- Brain half
- M. Sternocleidomastoideus
- M. Deltoideus
- M. Biceps brachii
- M. Triceps brachii
- M. Palmaris longus with
- M. Flexor carpi radialis
- M. Brachioradialis with
- M. Extensor carpi radialis
- Skin of the left arm
- Muscled leg, upper part
- Muscled leg, lower part
- Skin of the left leg
- Abdominal cover
- Mammary gland
- 2 removable lungs
- 2-part removable heart
- Removable liver
- 2-part removable stomach
- Removable kidney half
- 4-part removable intestines
- 3-part female genital w/ embryo
- 4-part male genital
- M. Satorius
- M. Gluteus maximus
- M. Rectus femoris
- M. Gastrocnemius
- M. Biceps femoris cap.
- L. with M. Semitendinosus

M-1000209

Free software included with this figure!





**Authentic 3B Scientific® Torsos  
Best quality and value at low prices!**

3B Scientific is the place for quality and value in human torso models. Our torsos are developed and modelled by skilled craftsmen in high-quality plastics then each torso is hand-painted to show a high level of detail.

3B Scientific® Torsos come in many of configurations to meet your needs and budget, from 12 parts to over 30 removable parts, choose the level of detail you want to reveal. To find the combination of removable parts and features and make an informed torso purchase, shop now at [3bscientific.com](http://3bscientific.com)!

► **Bestseller**

**Life-Size Muscle Torso, 27-part**

This muscle torso is designed to meet your high demands by showing the deep and superficial muscles in great anatomical detail. With the muscle torsos extraordinary accuracy and life-size presence, this muscular masterpiece is a distinctive aid for anatomical demonstrations even in large lecture halls. Please see online for all removable parts. 95 x 60 x 35 cm; 21,2 kg

*The following parts can be removed from the muscle torso for detailed studies of the human anatomy and muscular system:*

- Skull cap
- 6-part brain
- Eyeball with optic nerve
- Chest/abdominal wall
- 2-part larynx
- 2 lungs
- 2-part heart
- Diaphragm
- 2-part stomach
- Liver with gall bladder
- Complete intestinal tract with appendix
- Front half of kidney
- Half urinary bladder
- 4 muscles
- Complete intestinal tract with appendix

M-1001236





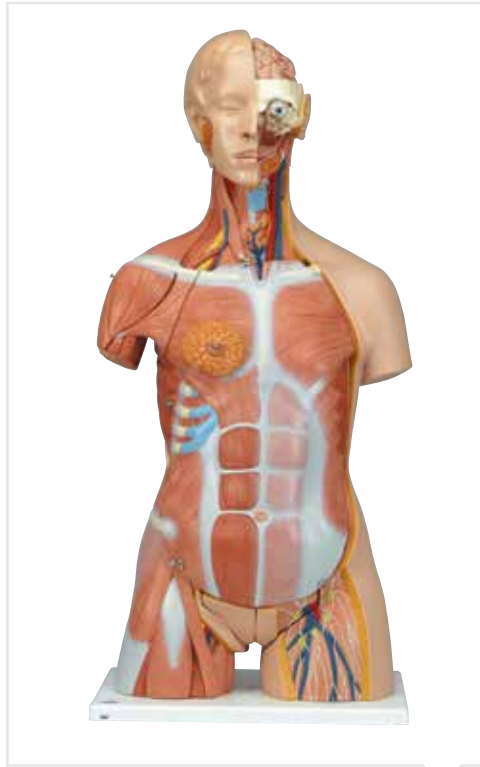
**Signature Dual-Sex Torso, 24-part**

Need even more features? Comes with the 3B Scientific® Guide to the Human Torso. 87 x 38 x 25 cm; 7,5 kg

*This advanced version features all removable parts found in our popular torso M-1000197 plus the following upgrades:*

- 3-part Head
- 2-part Stomach
- 4-part Intestine system

M-1000196



**Signature Dual-Sex Muscle Torso, 31-part**

This unique torso depicts both the superficial and deep muscles. The two main muscles, the deltoid and gluteus maximus can even be removed for closer studies. You can also study the vertebrae, the spinal cord, spinal nerves and vertebral arteries, exchange the male and female genital inserts, discover the internal structures of the brain and much more. Supplied with the the 3B Scientific® Guide to the Human Torso. 87 x 38 x 25 cm; 8,5 kg

M-1000203



**Signature Dual-Sex Torso with Opened Back, 28-part**

This torso has it all! Removable male and female genital inserts, opened neck and back section to study vertebrae, intervertebral discs, spinal cord, spinal nerves, vertebral arteries etc., a deluxe head with 4-part brain and much more! A detailed torso for advanced demonstrations. See [3bscientific.com](http://3bscientific.com) for all removable parts.

87 x 38 x 25 cm; 7,6 kg

M-1000200

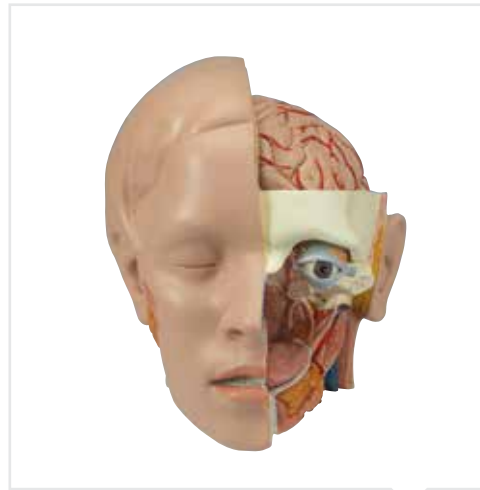
**Detailed, inside and out!**



**2-part Head**

The skull is exposed in the region of the cerebrum to show the brain.

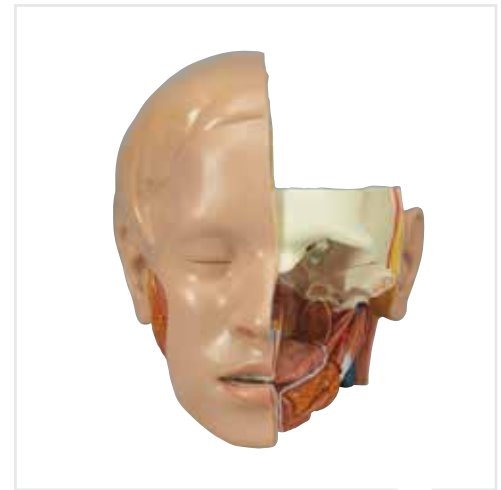
- Removable eyeball with optic nerve
- Not sold separately



**3-part Head**

The nose and mouth cavities are exposed to the pharynx for detailed studies. The skull cap is exposed to show the inner structures of the skull.

- Removable brain half with arteries
- Removable eyeball with muscles, ligaments and the optic nerve
- Not sold separately

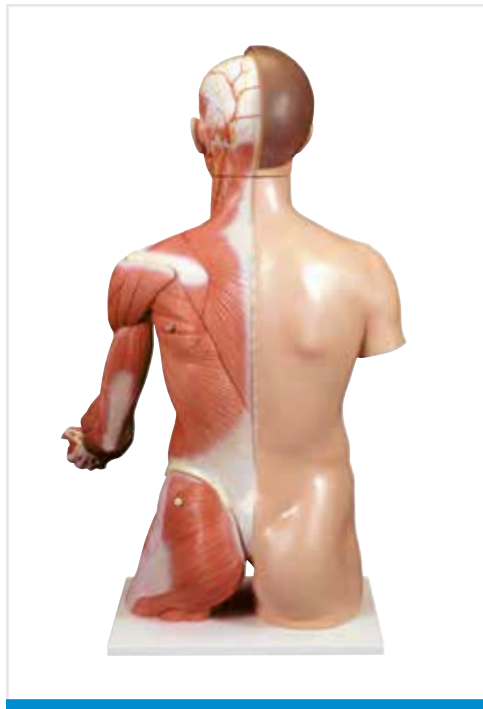


**6-part Head**

On this head, the occiput and the skull cap are exposed to show the inner structures of the skull.

- Removable 4-part brain half with arteries; frontal with parietal lobe; temporal with occipital lobe; half of brain stem and half of cerebellum
- Removable eyeball with muscles, ligaments and the optic nerve
- Not sold separately

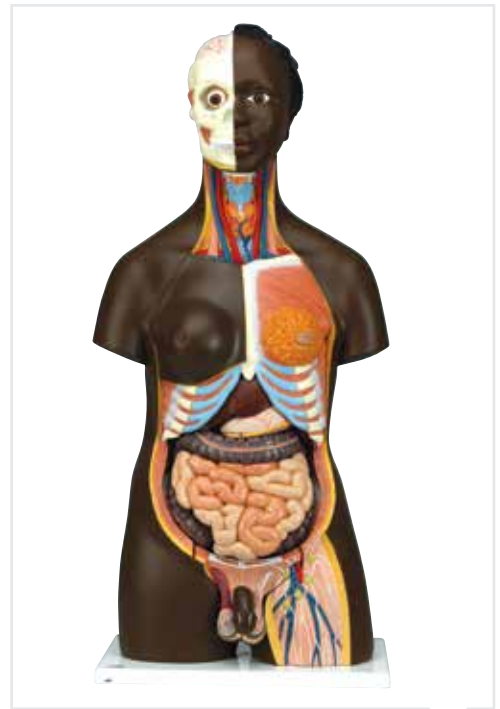




**Life-Size Dual-Sex Torso with Muscle Arm, 33-part**

A worldwide unique feature of this life-size torso is the removable 6-part muscle arm. This first-rate model fully represents the anatomy of the complete human upper body. Its great detail makes it especially suitable for the high standards of medical school. The right half shows the skin, the left half the superficial and deeper muscles with nerves, vessels and bony structures. The versatility of this aesthetically designed model is rounded off by the exact representation of the internal organs. See online for all removable parts. 90 cm; 22,8 kg

**M-1000205**

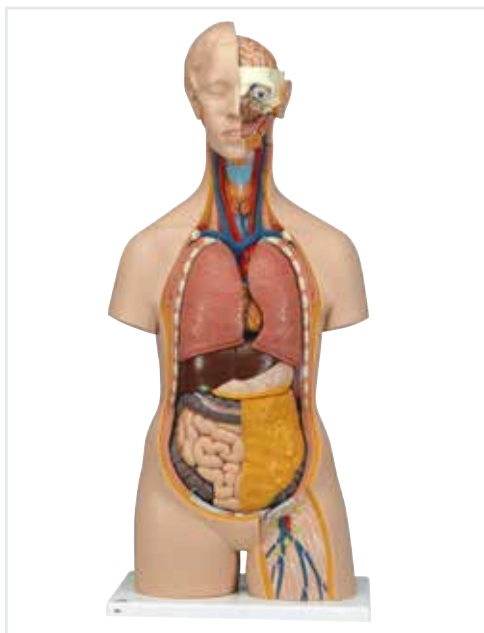


**Signature Dual-Sex African Torso, 24-part**

The same features as M-1000196, in dark skintone. 87 x 38 x 25 cm; 7,5 kg

**M-1000202**

**Quality and value at great low prices!**



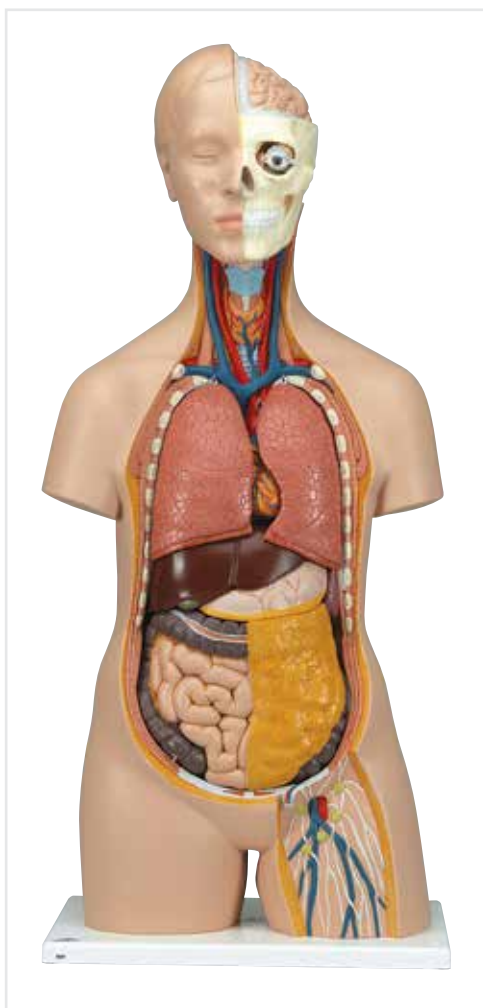
**Classic Unisex Torso, 14-part**

*This popular school torso is supplied with the following removable parts:*

- 3-part Head
- 2 Lungs
- 2-part Heart
- Stomach
- Liver with gall bladder
- 2-part Intestinal tract
- Front half of kidney
- Front half of urinary bladder

87 x 38 x 25 cm; 5,9 kg

**M-1000190**



**Classic Unisex Torso, 12-part**

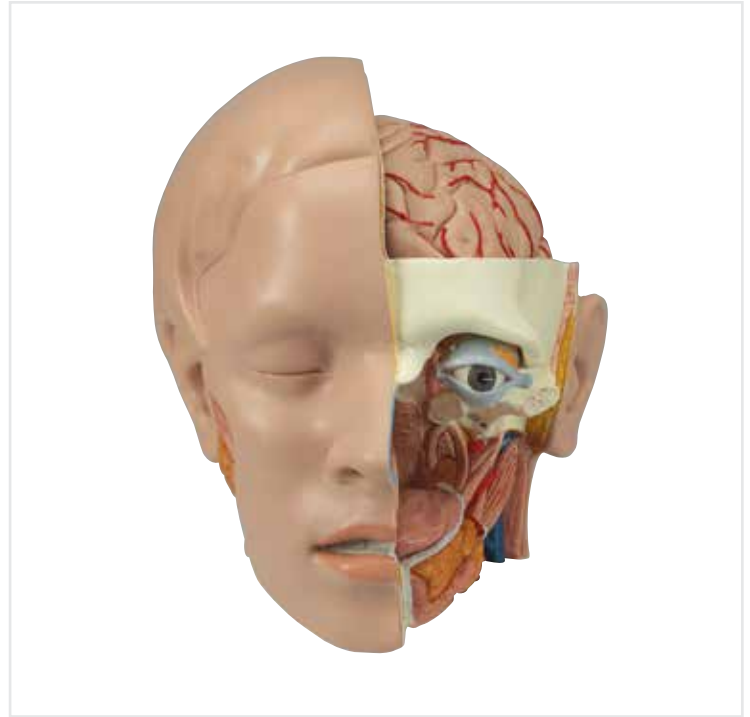
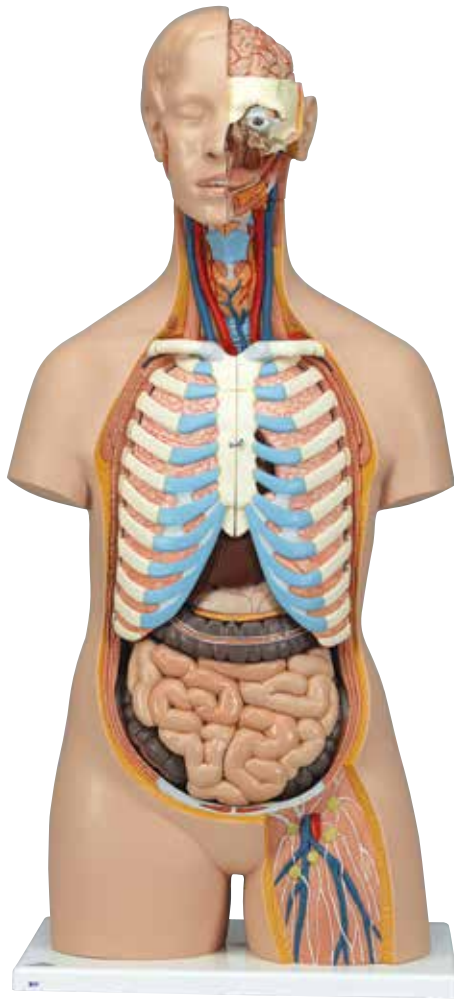
*The following components of this torso are removable:*

- 2-part Head
- 2-part Removable heart
- 2 Lungs
- Stomach
- Liver with gall bladder
- 2-part Intestinal tract
- Front half of kidney

87 x 38 x 25 cm; 5,9 kg

**M-1000186**





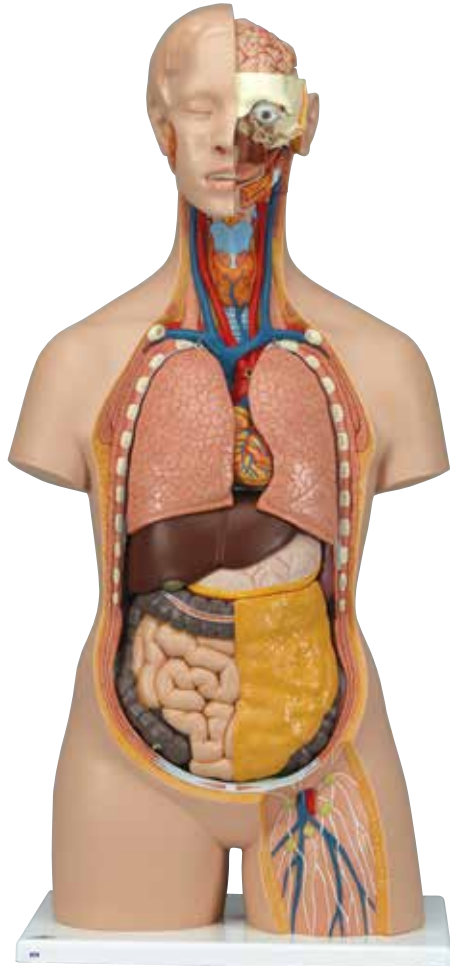
**Classic Unisex Torso with Open Back, 21-part**

This torso is based on the M-1000188 version for students and is equipped with an open neck and back section going from the cerebellum to the coccyx. Vertebrae, intervertebral discs, spinal cord, spinal nerves, vertebral arteries, and many other features are represented in detail. 87 x 38 x 25 cm; 6,5 kg

***This version contains the following new features in addition to M-1000188:***

- 7th Thoracic vertebra removable
- 6-part Head
- 2-part Stomach

**M-1000192**



**Classic Unisex Torso with Opened Neck and Back, 18-part**

Based on our M-1000190 torso, this model is characterized by its open neck and back section reaching from the cerebellum to the coccyx. Vertebrae, intervertebral discs, spinal cord, spinal nerves, vertebral arteries, and many other features are represented in detail and can be studied closely. 87 x 38 x 25 cm; 5,8 kg

***This version contains the following new features in addition to M-1000190:***

- 7th Thoracic vertebra removable
- 6-part Head

**M-1000193**

## Our most comprehensive classic Torso!

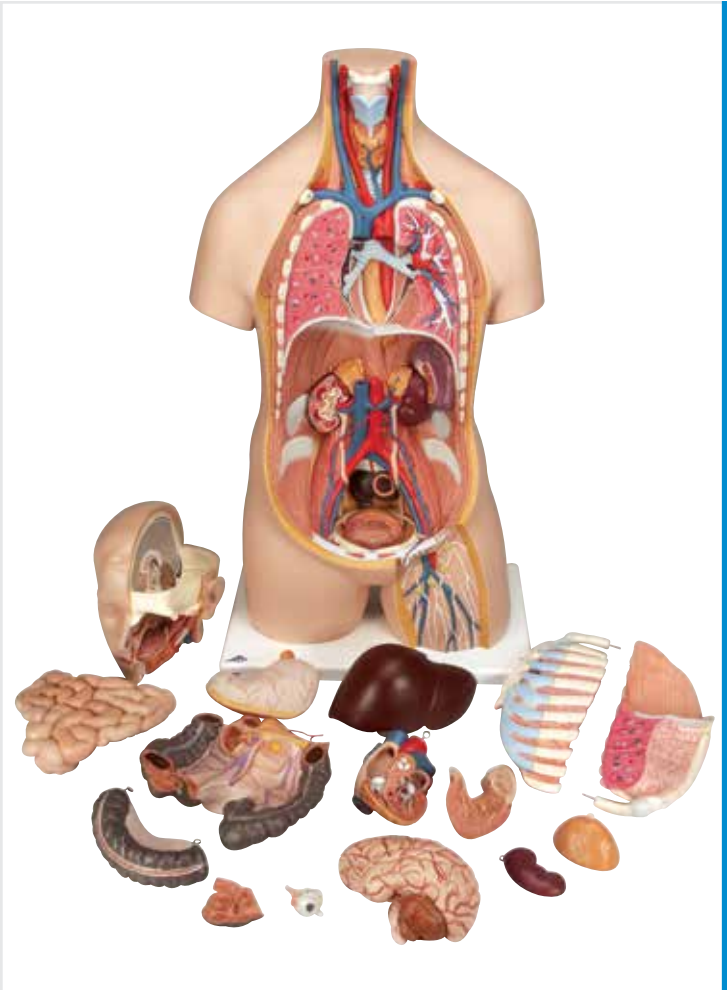
### Classic Unisex Torso, 16-part

This torso is especially popular among students. It shows the human anatomy in great detail and contains the following removable parts:

- 3-part Head
- 2 Lungs with sternum and rib attachments
- 2-part Heart
- Stomach
- Liver with gall bladder
- 4-part Intestinal tract
- Front half of kidney
- Front half of urinary bladder

87 x 38 x 25 cm; 6,8 kg

M-1000188



### Signature Dual-Sex Torso, 20-part

The quality of this Dual-Sex Torso is impressive – and so is the price! Comes with the 3B Scientific® Guide to the Human Torso. 87 x 38 x 25 cm; 7,3 kg

*Use this Torso to answer all questions about the inside story of our bodies by removing and dissecting the following parts:*

- 2-part Head
- Female breast covering
- 2 Lungs
- 2-part Heart
- Stomach
- Liver with gall bladder
- 2-part Intestinal system
- Front kidney half
- 4-part Male genital insert
- 3-part Female genital insert with foetus

M-1000197



Authentic 3B Scientific® quality torsos is a piece of mind for your class and your budget!

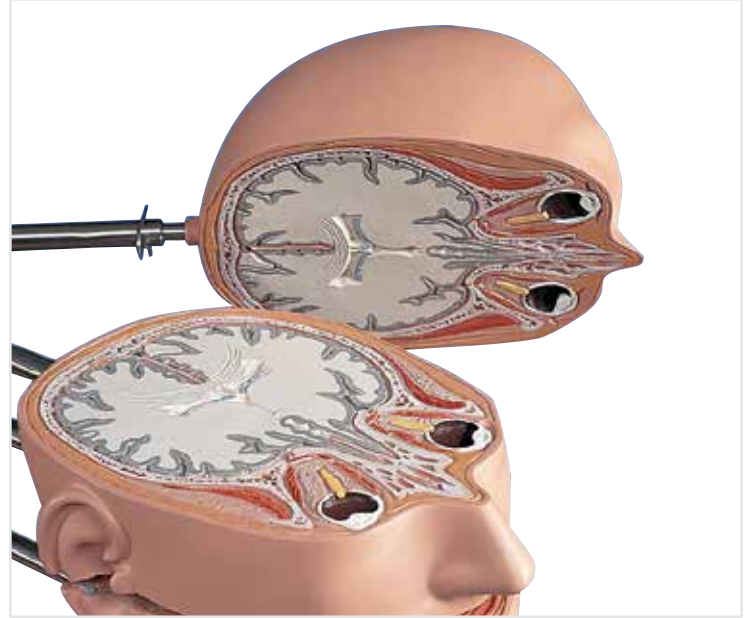


**MRI Torso**

This extraordinary design presents a view of the human body developed using modern imaging techniques such as ultrasound, CT scans, and MRI tomography. The 15 full-colour axial sections through the human body each accurately depict the features of a particular section. The individual slices are mounted on pivoting spokes and permit viewing and inspection from any angle, they can even be removed. The results are a brand new understanding of human anatomy that is both interesting and engaging for students. 130 x 40 x 35 cm; 19 kg

**M-1001237**

**View 15 axia sections from any angle**



**Guide to the Human Torso**

Get "inside" the human torso and open a whole new world of kinaesthetic learning. Detailed coverage of individual systems and organs of the human body in a user-friendly format. This is a resource for students as well as teachers of anatomy and physiology. Teaching or learning another language? The Guide has you covered in English, Latin, Spanish, German, French, Portuguese and even Japanese.

**More Great Features:**

- Brilliant coloured pictures of each part of the torso
- Detailed explanations of even the smallest anatomical structures
- Valuable teaching tips to create more interesting lessons
- Includes all content on a CD-ROM in PDF format to assist in creating tests, or preparing lessons, and studying
- Sturdy 3-ring style binder for storage and organisation

**M-1000183**

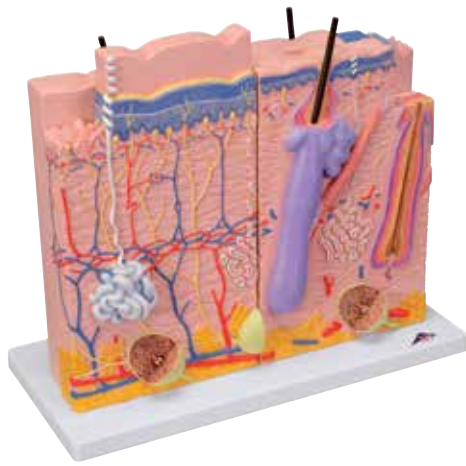


**Heavy Duty Protective Cover for Torsos**

Protect your investment with this heavy duty protective cover for your torso models. Suitable for all full-size torsos. Zippered with reinforced easy-carry handle. Black.

**M-1018402**





### Skin Model, 3-part

All three models are located on a common base, can be removed individually, and can be attached together via magnets to show the interrelationships. Distinctions within the skin are illustrated with regard to the positions on the human body such as the palm of the hand, back of the hand and scalp. See online for full description. 34 x 39 x 15,5 cm; 2 kg  
M-1000294

### 3 Models in 1!



### ► Bestseller

#### Skin, Hair, and Nail Microscopic Structures

This model shows the microscopic structure of the skin in great detail. Both hairless and hairy skin structure are shown as well as the different cell layers of the skin, embedded sweat glands, touch receptors, blood vessels, nerves, erector pili muscle, and a hair follicle. In addition to these details, a section of nail is shown on the base depicting the nail plate, bed, and root. Completing the skin model is a representation of a hair root with all of its cellular layers. 10 x 12.5 x 14 cm; 0,35 kg  
M-1000292



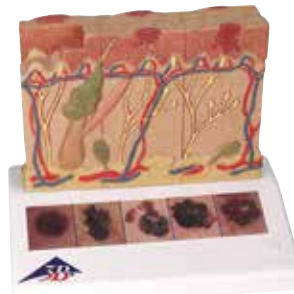
#### Skin Section, 70 Times Full-Size

This relief model shows a section through the three layers of the hair-covered skin of the head. 26 x 33 x 5 cm; 1 kg

##### Delivered on base it shows:

- Sweat glands
- Vessels
- Receptors
- Nerves
- Representation of hair follicles with sebaceous glands

M-1000289

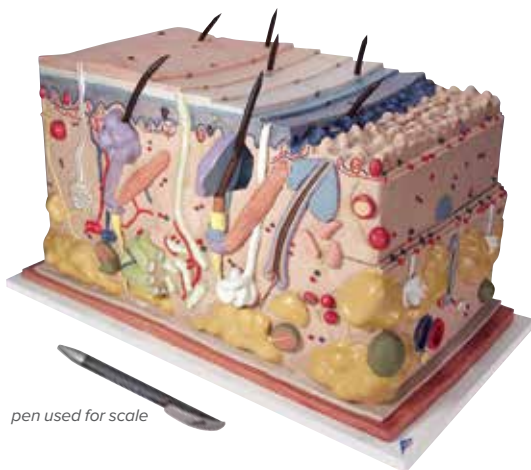


#### Skin Cancer Model

This 3B Scientific® Skin Pathology model shows healthy skin and 5 different stages of malignant melanoma on the front and back, enlarged 8 times:

- Healthy
- Malignant cells are found at the surface, within the epidermis
- Malignant cells fill the epidermis, a few invade the papillary layer
- Malignant cells fill the papillary layer
- Malignant cells invade the reticular layer
- Malignant cells have reached the subcutaneous fatty tissue, satellite cells approach a vein

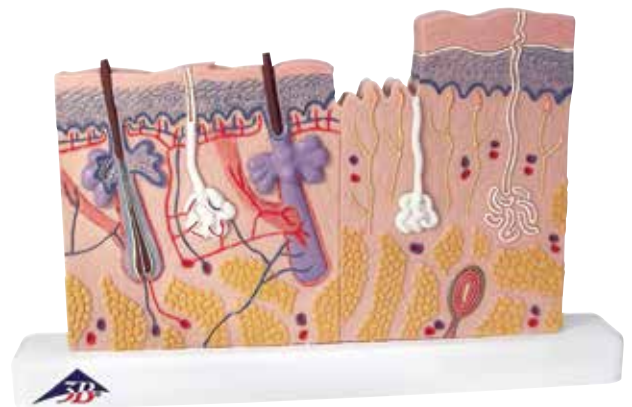
M-1000293



#### Skin Block Model, 70 Times Full-Size

This distinctive model shows a section of human skin in three dimensional form. Individual skin layers are differentiated and important structures such as hair, sebaceous and sweat glands, receptors, nerves, erector pili muscles and vessels are shown in great detail. Mounted on baseboard. 44 x 24 x 23 cm; 3,6 kg

M-1000291

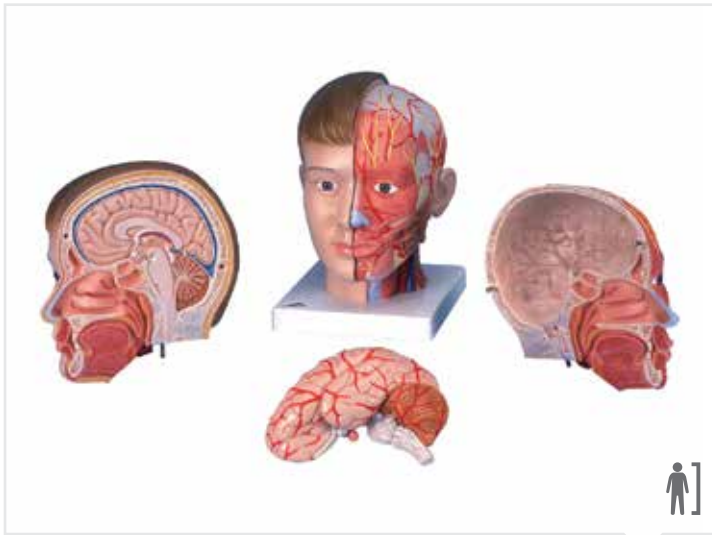


#### Skin Section, 40 Times Life-Size

The two halves of this relief model show the three layers of hairy and hairless skin in order to make the differences clear. Detailed with hair follicles, sebaceous glands, sweat glands, receptor, nerves, erector pili muscles and vessels. Delivered on base.

24 x 15 x 3,5 cm; 0,2 kg

M-1000290



**Deluxe Head with Neck, 4-part**

The left half of this life-size midsagittal section shows the muscles with nerves, vessels, and bony structures. It also contains a removable brain half. The head is mounted on a detachable neck, which is sectioned both horizontally and diagonally. Supplied on baseboard. 26 cm; 2,2 kg

M-1000216



**Median Section of the Head**

This relief model shows all relevant structures of the human head in great detail and is also delivered on a baseboard. 26 x 33 x 5 cm; 1 kg

M-1000219



**Bestseller**

**Half Head with Musculature**

Representation of the outer, superficial, and internal (median section) structures of head and neck. Delivered on removable stand. 22 x 18 x 46 cm; 1,1 kg

M-1000221



**Head Musculature**

Representation of the superficial musculature of head and neck showing:

- Parotid gland
- Submandibular gland
- Deep musculature
- Lower jaw partially exposed

24 x 18 x 24 cm; 1,2 kg

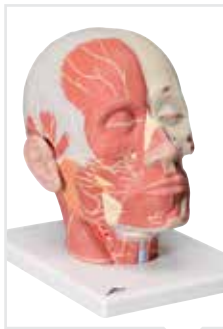
M-1001239



**Head Musculature with Blood Vessels**

All the features of M-1001239, plus a display of the blood vessels. 24 x 18 x 24 cm; 1,2 kg

M-1001240



**Head Musculature with Nerves**

All the features of M-1001239, with an additional display of nerves. 24 x 18 x 24 cm; 1,2 kg

M-1008543



**Head and Neck Musculature, 5-part**

The model represents the superficial musculature and deep muscles of the head. The nerves and vessels of the head are also depicted. The head is dissectible into skull cap and 3-part brain. Delivered on a removable baseboard. 36 x 18 x 18 cm; 1,8 kg

M-1000214





This brain model fits all 3B Scientific® Classic Skulls so you can upgrade whenever you like!

► **Bestseller**

**Classic Brain, 5-part**

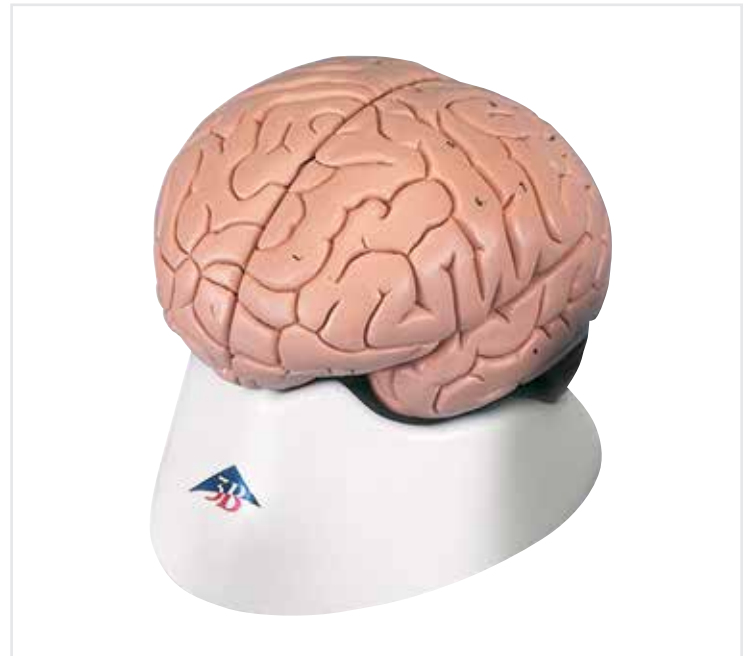
This midsagittally sectioned model is an original anatomical cast of a real human brain. Now with magnetic closures! 13 x 14 x 17,5 cm; 0,9 kg

*The components of its left half are:*

- Frontal and parietal lobe
- Temporal and occipital lobe
- Encephalic trunk
- Cerebellum

**M-1000226**

► **Save** when you purchase the M-1000049 Skull with Brain Model on **page 31!** ◀



**Deluxe Brain, 8-part**

A very detailed medially divided model of the human brain. On a removable base. 14 x 14 x 17,5 cm; 0,9 kg

*Both halves can be disassembled into:*

- Frontal with parietal lobes
- Temporal with occipital lobes
- Half of brain stem
- Half of cerebellum

**M-1000225**

**Brain, 4-part**

This brain is medially divided. All structures are hand-painted, numbered, and identified in an accompanying product manual. On removable base. 14 x 14 x 17,5 cm; 0,9 kg

*The right half can be disassembled into:*

- Frontal with parietal lobes
- Brain stem with temporal and occipital lobes
- Half of cerebellum

**M-1000224**





**Deluxe Brain with Arteries on Base of Head, 10-part**

This deluxe brain comes with an opened head to allow detailed study of the brain's position in the skull. The head is horizontally divided above the skull base. The brain is divided medially, with a removable basilar artery. Both halves can be divided into frontal parietal lobes, temporal with occipital lobes, and half of cerebellum. 15 x 15 x 23 cm; 1,6 kg

M-1017869



**Deluxe Head Model, 6-part**

Our most detailed head model! This life-size 6-part head is mounted on a base and features a removable 4-part brain half with arteries. The eyeball with optic nerve are also removable. One side exposes the nose, mouth cavity, pharynx, occiput, and skull base. 9 x 23 x 22 cm; 1 kg

M-1000217



**Deluxe Brain with Arteries, 9-part**

This medially divided deluxe brain model shows the brain arteries as well as the detachable basilar artery. On a removable base. 15 x 14 x 16 cm; 0,9 kg

*Both halves can be disassembled into:*

- Frontal with parietal lobes
- Half of brain stem
- Temporal with occipital lobes
- Half of cerebellum

M-1017868



**Brain Ventricle**

This life-size model shows both lateral ventricles, the 3rd and 4th ventricle, and the aquaeductus cerebri (sylvius). On stand. 14 x 11 x 14 cm; 0,6 kg

M-1001262



**Human Brain Chart**

50 x 67 cm

Laminated Paper M-1001584  
M-4006709

Check out our chart selection on pages 140-145 or visit [3bscientific.com](http://3bscientific.com).



### Neuro-Anatomical Brain, 8-part

This deluxe brain is medially divided. On the right half you will find a coloured, systematic grouping and representation of the cerebral lobe. Delivered on removable base. 14 x 14 x 17,5 cm; 0,95 kg

#### The left half shows:

- Pre- and post-central region
- Broca and Wernicke areas
- Heschl's gyrus
- Brain nerves
- Ventricles

#### Both halves can be disassembled into:

- Frontal with parietal lobes
- Temporal with occipital lobes
- Half of brain stem
- Half of cerebellum

M-1000228



### This massive brain is truly memorable!

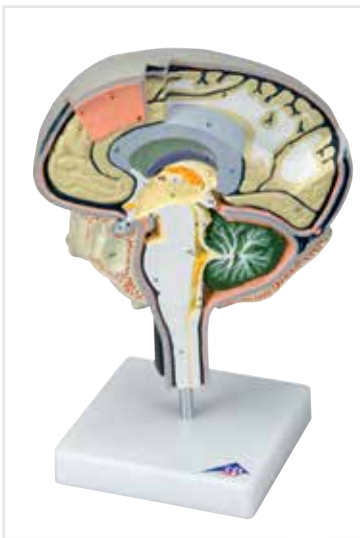
#### Giant Brain, 2.5 Times Life-Size, 14-part

At 2.5 times life-size this comprehensive brain model is a very useful teaching aid, especially for large groups of students. All structures of the brain and the ventricles are visible through median, frontal, and horizontal divisions. Delivered with a removable base. 34 x 30 x 37 cm; 5,6 kg

- Unbreakable – Natural cast made from durable vinyl
- Fourteen removable segments secured with pins
- Ideal for 3D study of brain structures
- Includes removable base and detailed product manual

M-1001261

### Double-sided brain sections!

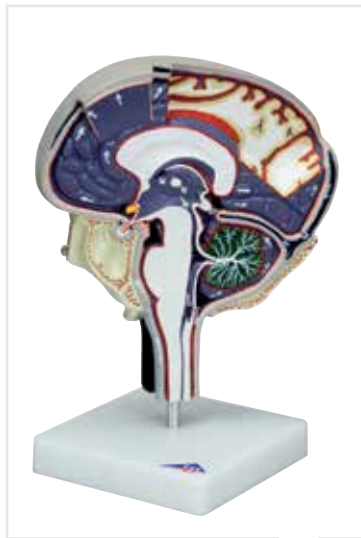


#### Brain Section

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

25 x 18 x 12 cm; 0,9 kg

M-1005113



#### 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. Bright colours to distinguish important features; identified in English in an accompanying product manual. Mounted on stand.

25 x 18 x 12 cm; 0,9 kg

M-1005114



#### Rat Brain Comparative Anatomy

Enlarged roughly six times, and medially sectioned, the rat brain model can be disassembled into two halves. The right half of the colour-coded model shows the structures of the cerebrum, cerebellum, and brain stem. The left half is largely transparent with a view of the left lateral ventricle and hippocampus in the median section. For comparison, a natural cast of a rat brain and a didactic, small-scale illustration of a human brain in median section are shown on the base. Each has the same colour coding used for the various regions. 14 x 10 x 16 cm; 0,24 kg

M-1000230

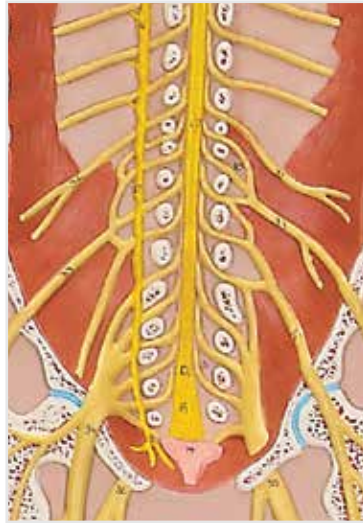


► **Bestseller**

**Nervous System**

An excellent model to study the structure of the human nervous system. 3D relief model shows schematic representation of the central and peripheral nervous system. 80 x 33 x 6 cm; 3,5 kg

**M-1000231**



**Giant Functional Centre Brain, 4-part**

This popular brain model reproduces the brain of a right-handed person. It employs contrasting colours and hand-lettered captions to identify motor and sensory functional centers. In addition to focusing on the intellectual role of the dominant left brain, and the creative role of the right, the model highlights the emotional, sexual, memory, and learning functions of the limbic system. Sensory regions and centers receptive to 20 specific body regions are distinguished, as are the motor centers controlling 19 body regions. More than 120 hand-numbered features are identified in the corresponding key. On base. 23 x 20 x 30 cm; 2,38 kg

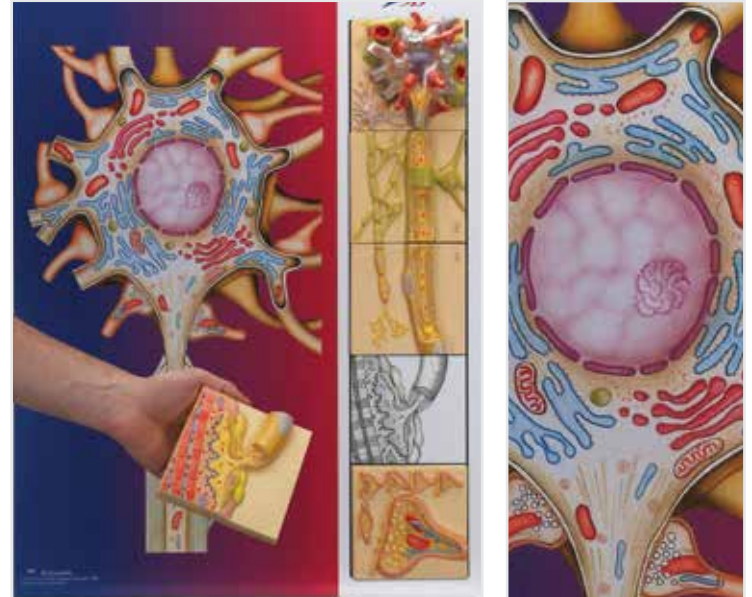
**M-1005555**



**Motor Neuron Diorama**

Magnified over 2,500 times. This colour-coded, three-dimensional reproduction shows a motor nerve cell situated within a milieu of interacting neurons and a skeletal muscle fibre. The membranous envelope is cut away from the neuron to expose the cytological ultrastructure, organelles, and inclusions within the cell body. A section of the axon lifts off to let you view the tightly wound layers of the enveloping myelin sheath and neurolemma, as well as the Schwann cell which formed them. Via a cutaway view, you can observe synaptic vesicles, carrying neurotransmitters, about to stimulate the muscle fibre to action. Mounted on a wooden base. 43 x 20 x 28 cm; 3 kg

**M-1005553**



**Physiology of Nerves**

This five model series from 3B Scientific® is unique in the world. Interchangeable sections can be assembled to illustrate the features of typical neurons found in vertebrates. All sections depict the neural components in vivid colours and attach magnetically to the illustrated base. 68 x 51 x 3 cm; 4,2 kg

**The set contains the following sections, which are also available individually:**

- Neuron Cell Body
- Myelin Sheaths of the CNS
- Schwann Cells of the PNS
- Motor End Plate
- Synapse

**M-1000232**



**Median and Frontal Section of the Head**

The perfect model to learn structure location. Two relief models on baseboard showing all relevant structures of the human head in great detail. 41 x 31 x 5 cm; 1,45 kg

**M-1000220**





### MICROanatomy™ Eye

The model illustrates the microscopic structure of the retina with choroid and sclera. The left, block-like, layered side of the model shows the complete structure of the retina including the supplying vascular layer and parts of the sclera from a lighted microscopic view. The right part of the model, a sectional enlargement, shows the microscopic structure of the photoreceptors and the cells of the pigmented layer. 25 x 23 x 18,5 cm; 1,2 kg

M-1000260



### ► Bestseller

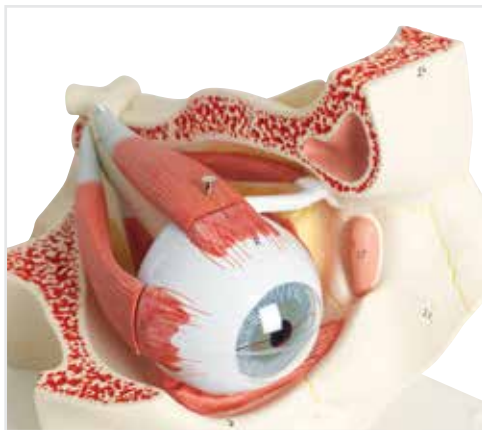
#### Classic Eye, 3 times Full-Size, 6-part

9 x 9 x 15 cm; 0,1 kg

*This model dissects into the following parts:*

- Both halves of sclera with cornea and eye muscle attachments
- Both halves of choroid with iris and retina
- Lens
- Vitreous humour

M-1000259

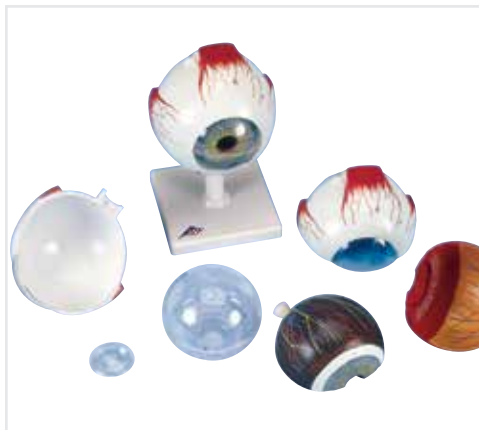


### Classic Eye in Orbit, 3 times Full-Size, 7-part

Similar to item M-1000259, this model additionally shows the optic nerve in its natural position in the bony orbit of the eye (floor and medial wall). On square base.

18 x 26 x 19 cm; 1,1 kg

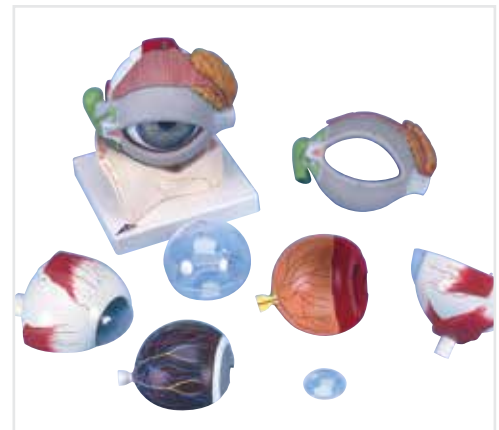
M-1000258



### Giant Eye, 5 Times Full-Size, 6-part

An excellent model for teaching due to its enhanced size. The same removable parts as the M-1000259. On square base. 13 x 14 x 21 cm; 0,6 kg

M-1000255



### Giant Eye with Eyelid and Lachrymal System, 5 Times Full-Size, 8-part

All of the features of M-1000259 plus the eyelid, lachrymal system, on a bony orbit. On square base.

20 x 18 x 21 cm; 1,2 kg

M-1000257



### Giant Eye in Base of Bony Orbit, 5 Times Full-Size, 7-part

With the same features as M-1000259 and delivered on a square base of bony orbit. 18 x 18 x 20 cm; 1 kg

M-1000256

Did you know that 3B Scientific is represented in more than 100 countries worldwide. Learn more about us at [3bscientific.com](http://3bscientific.com)!

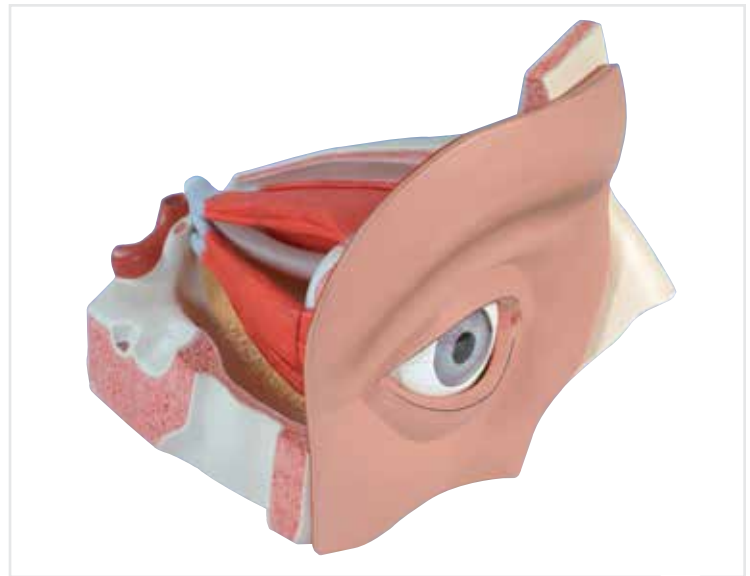


### Pathological Eye - Enlarged 5 Times

This eye model is ideal for patient education. The easy to use switchable and didactically simplified representations of the retina and lens, make it possible to clearly explain the typical changes that occur in a healthy eye due to the following diseases:

- Subcapsular cortical and nuclear cataract
- Diabetic and Hypertensive retinopathy
- Papillary changes of glaucoma
- Age-related macular degeneration
- Papilloedema
- Central retinal arterial occlusion and venous occlusion
- Rhegmatogenous retinal detachment

M-1017230



### Eye, 5 times Full-Size, 12-part

33 x 30 x 38 cm; 5 kg

- Both halves of the sclera
- Optic nerve
- M. rectus superior
- M. rectus lateralis
- Cornea half
- Lens
- Lachrymal system
- Vitreous humour
- Tear gland associated structures

M-1001264



### Functional Eye

With this functional eye model the functions of the human eye can be taught very effectively. By moving the retina, the shape of the eye can be changed. The lens and ciliary body are made of silicone to allow the change of form and thickness of the lens. 45 x 30 cm; 2 kg

M-1005046



### Budget Functional Eye

With this budget functional eye model the functions of the human eye can be taught very effectively. By moving the retina, the shape of the eye can be changed. The lens and ciliary body are made of silicone to allow the change of form and thickness of the lens. 32 x 18 cm; 0,5 kg

M-1005047



### Physical Eye Model

Use to demonstrate the optical functions of the eye, e.g. representation of an object on the retina, accommodation, short-sightedness and far-sightedness.

49 x 5,5 x 18 cm; 2 kg

- Half eyeball with adjustable iris diaphragm, lens holder and 2 convex lenses (f = 65 mm and 80 mm), on a rod
- Half eyeball with retina (transparent screen), on a rod
- Lens holder with one concave and one convex corrective lens, on a rod
- Candle holder with 2 candles, on a rod
- Aluminium rail, 50 cm long, with 4 clamp slides
- Includes case

M-1003806



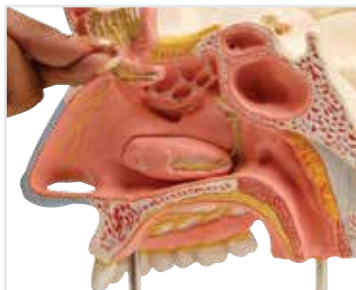
### Coloured Eye Chart

This innovative new eye chart simultaneously screens for colour blindness as well as testing visual acuity. The Coloured Eye Chart has proven effective in screening the two most common types of red-green colour blindness: protanopia/protanomalopia and deuteranopia/deuteranomalopia, as well as the extremely rare, total colour blindness. Printed on heavy, fully laminated stock, each chart is fitted with a metal eyelet for hanging.

27 x 58 cm

M-1018324





#### Nose with Paranasal Sinuses, 5-part

The upper right half of the face is enlarged 1.5 times to illustrate the structure of the nose with paranasal sinuses. 26 x 19 x 24 cm; 0,8 kg

*The following structures are differentiated by colour and visible through the transparent removable skin:*

- Outer nasal cartilages
- Nasal, maxillary, frontal, and sphenoidal sinuses
- Opened maxillary sinus when the zygomatic arch is removed

*The following structures are shown in median section:*

- Nasal cavity, lined with mucosa, with the (removable) nasal conchae
- Arteries of the mucous membrane
- Olfactory nerves
- Innervation of the lateral wall of the nasal cavity, the nasal conchae and the palate.

M-1000254



#### World's largest ear!

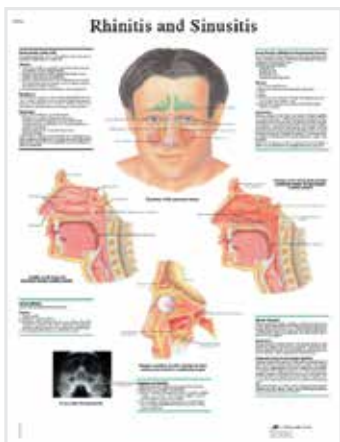
##### The World's Largest Ear, 15 times Full-Size, 3-part

At 15 times life-size, this 3-part ear is suitable for museums and special collections as well as large lecture halls and conferences. Representation of outer, middle and inner ear.

The auditory ossicles and the labyrinth with cochlea and vestibulocochlear nerve can be removed and studied in detail. On base. 130 x 120 x 60 cm; 52 kg

M-1001266

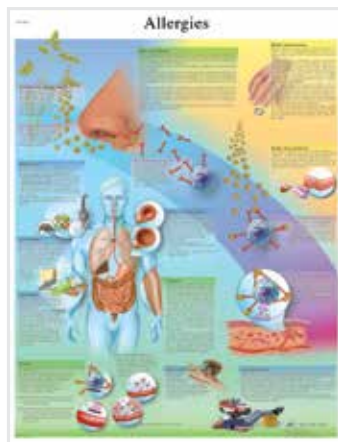
▶ More charts available online at [3bscientific.com](http://3bscientific.com) or see page 140-145. ◀



#### Rhinitis and Sinusitis Chart

50 x 67 cm

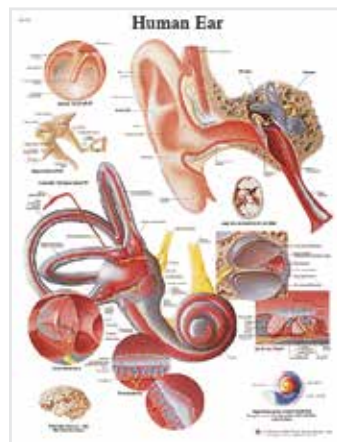
Laminated M-1001488  
Paper M-4006669



#### Allergies Chart

50 x 67 cm

Laminated M-1001596  
Paper M-4006715



#### Human Ear Chart

50 x 67 cm

Laminated M-1001486  
Paper M-4006667

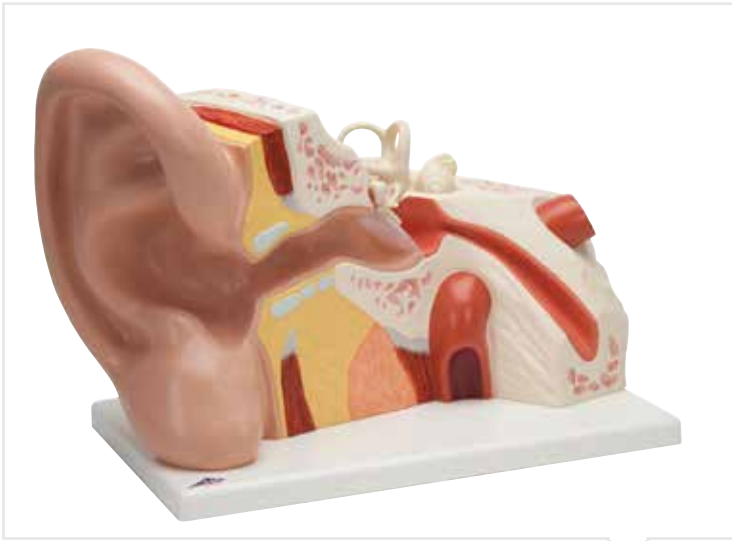


#### Diseases of the Middle Ear Chart

50 x 67 cm

Laminated M-1001490  
Paper M-4006670





**Giant Ear, 5 times Full-Size, 3-part**

This version is a whopping 5 times life-size for easy viewing from anywhere in the classroom! Representation of outer, middle, and inner ear. Removable auditory ossicles, labyrinth with cochlea, and vestibulocochlear nerve. Delivered on base. 25 x 41 x 25 cm; 3,0 kg

**M-1008553**



**► Bestseller**

**Giant Ear Advanced Version, 3 times Life-Size, 6-part**

The same features as M-1000250, with the addition of two removable bone sections to close the middle and inner ear. 34 x 16 x 19 cm; 1,55 kg

**M-1000251**



**Classic Giant Ear, 3 times Life-Size, 4-part**

At approximately 3 times life-size, the model has representations of the outer, middle, and inner ear. Removable eardrum with hammer, anvil, and stirrup, as well as 2-part labyrinth with cochlea, and auditory/ balance nerve. On base. 34 x 16 x 19 cm; 1,25 kg.

**M-1000250**



**Life-size Auditory Ossicles**

Cast from natural specimen, these human auditory ossicles are presented in their natural position and embedded in transparent acrylic. 0,05 kg.

**M-1000253**



**Functional Ear Model**

This highly realistic model shows how the tympanic membrane, ossicles, the complex internal ear with the cochlea, and the oscillations of the Basilar hearing membrane operate and interact. The enclosed mirror enables operation of the model while studying various ear-functions from different angles. Includes a colour explanatory chart. 30 x 20 x 15 cm; 1 kg

**M-1005052**



**Desktop Ear Model, 1,5 times Life-Size**

Specifically designed for those on a budget, the model shows the outer, middle, and inner ear with no compromise in quality. On base.

14 x 10 x 14,7 cm; 0,35 kg

**M-1000252**



► **Bestseller**

**Tongue Model, 2½ times Life-Size, 4-part**

This model shows the lower jaw up to the second molar, the tongue with mouth floor musculature in median section and the right sublingual and submandibular gland. On removable base. 23 x 17 x 16 cm; 0,8 kg

M-1002502



**MICROanatomy™ Tongue**

The 3B Scientific® MICROanatomy™ of the tongue comprises a macroscopic view of the tongue (dorsal view) and microscopic views of the various papillae of the tongue and of a taste bud. All views are mounted on a base that also features an overview of the sensory and sensitive innervations of the tongue. 14.5 x 32.5 x 20 cm; 0,8 kg

M-1000247

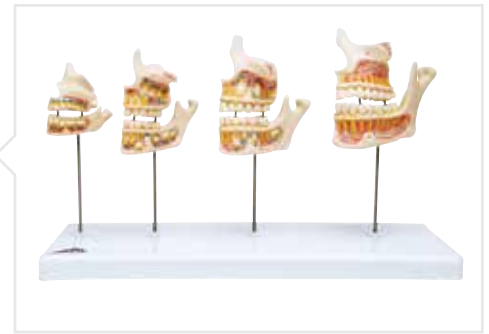
**Dentition Development**

Cast from natural specimens, these four upper and lower jaw halves show four different stages of development:

- Newborn
- Approx. 5-year old child
- Approx. 9-year old child
- Young adult

33 x 10 x 20 cm; 0,5 kg

M-1000248



A



B



C



D

**A. Adult Dentures**

Tooth roots, spongiosa, vessels, and nerves are exposed for detailed study. The lower jaw is movable. On base. 16 x 12 x 13 cm; 0,9 kg

M-1001247

**B. Milk Dentures**

Upper and lower jaw are opened to show the arrangement of the remaining teeth. On base. 13 x 12 x 13 cm; 0,6 kg

M-1001248

**C. Advanced Half Lower Jaw with 8 Diseased Teeth, 19-part**

These diseased teeth show various stages of cavities from a small and easy-to-treat example on an incisor, through an advanced degradation of a molar, showing exposed root. 22 x 32 x 9 cm; 1,1 kg

M-1001250

**D. Half Lower Jaw, 3 times Full-Size, 6-part**

One section of bone can be removed to expose the teeth roots, spongiosa, vessels, and nerves. The canine and first molar are removable and longitudinally sectioned. On stand. 35 x 18 x 36 cm; 1,2 kg

M-1000249



### Skull with Teeth for Extraction, 4-part

The teeth of the upper and lower jaw can be extracted and replaced individually with their fully-formed roots. A bone flap on the right mandible can be opened to view the dental roots, spongiosa, nerve canal, and an impacted wisdom tooth. 22 x 13,5 x 17 cm; 0,8 kg

M-1003625



### Quality products!

- Features individual teeth with roots
- Practise extraction time and again
- Naturally articulated jaw



### Dental Morphology Series

At ten times life-size, this dental morphology series has removable lateral incisor, canine, first premolar, bridge made of artificial first molar with gold coloured crown, and second molar. All relevant dental morphology structures are labeled. Dental morphology on transparent, jaw-shaped stand. Key card included. 70 x 25,5 x 15 cm; 2,1 kg

M-1005540



### Giant Molar with Dental Cavities, 15 times Life-Size, 5-part

This model depicts an upper triple-root molar and features a longitudinal section through the crown, two roots, and the pulp cavity. Contains removable pulp and three teeth inserts with different stages of advanced cavities. On stand. 24 x 12 x 13 cm; 1,5 kg

M-1013215



*Comes with large 35,5 cm toothbrush!*

### Giant Dental Care Model

At 3-time life-size, this model is large enough to be seen from the back of a classroom. It shows the upper and lower half of an adult's dentition. Teach proper cleaning techniques using the giant 35.5 cm toothbrush included with this model. 18 x 23 x 12 cm; 1,5 kg

M-1000246

Replacement Parts  
Giant 35 cm toothbrush.

M-4000098



### Individual Classic Tooth Models

These tooth models show five representative types of adult dentition individually mounted on removable stands.

- |                                    |           |
|------------------------------------|-----------|
| E. Lower Canine, 2-part            | M-1000241 |
| F. Lower Twin-Root Molar, 2-part   | M-1000243 |
| G. Upper Triple-Root Molar, 3-part | M-1017580 |
| H. Lower Incisor, 2-part           | M-1000240 |
| I. Lower Single-Root Pre-Molar     | M-1000242 |



### Dental Disease, 21-part

Based on a lower jaw with soft gums and 16 removable teeth. One half of the model shows eight healthy teeth and healthy gums. One part of the front bone section can be removed from the dental disease model to view the roots, vessels and nerves. Two molars are sectioned along the length to show the inside of the tooth. Delivered on a base. 17,5 x 26 x 18,5 cm; 0,6 kg

*The other half shows the following dental diseases:*

- Dental plaque
- Dental calculus (tartar)
- Periodontitis
- Inflammation of the root
- Fissure, approximal and smooth surface caries

M-1000016





### Heart with Bypass, 2 times Life-Size, 4-part

This 2 times life-size heart is great for large lecture halls or classrooms. The front heart wall can be removed to view the inner chambers. In addition, this model shows a venous bypass to the ramus postero-lateralis of the right coronary artery, to the ramus interventricularis ant. of the left coronary artery with branching to the ramus diagonalis as well as a bypass to the ramus circumflexus of the left coronary artery. On removable stand. 32 x 18 x 18 cm; 1,1 kg

**M-1000263**

### Features:

- Rotation and removal for closer inspection
- Variety of sizes including life-size, over-size and reduced in size models
- Two to ten removable parts



### ► Bestseller

#### Classic Heart, 2-part

Our Classic Heart is highly detailed and at a price you will love. Just slightly smaller than life-size with exquisite detail throughout including ventricles, atria, valves, veins, and the aorta. The front heart wall is detachable to reveal the chambers and valves inside. On stand. 19 x 12 x 12 cm; 0,3 kg

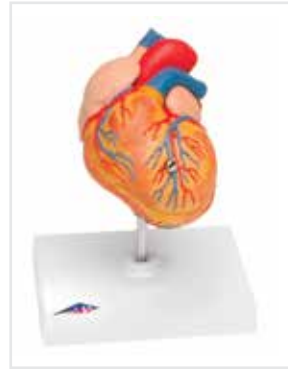
**M-1017800**



#### Classic Heart with Bypass, 2-part

With all the features of the M-1017800, but also includes venal bypasses to the right coronary artery, to the ramus interventricularis anterior, and also to the ramus circumflexus of the left coronary artery, which are shown in colour. This model is a great aid in explaining coronary heart disease. On removable stand. 19 x 12 x 12 cm; 0,35 kg

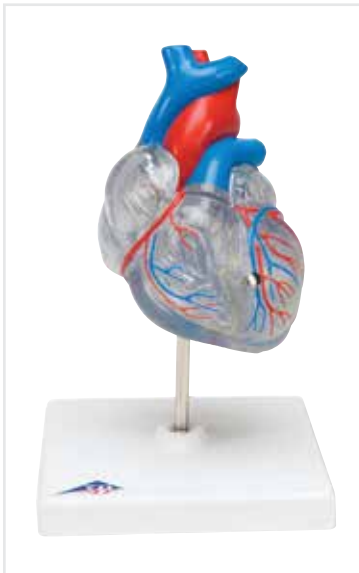
**M-1017837**



#### Classic Heart with Left Ventricular Hypertrophy (LVH), 2-part

In addition to all the features of item M-1017800 this unique model shows the long-term effects of increased heart activity due to high blood pressure. The muscular wall of the left heart ventricle is considerably thickened and the tip of the heart is visibly rounded off. On removable stand. 0,45 kg

**M-1000261**



### Durable & virtually unbreakable!

#### Classic Heart with Conducting System, 2-part

This unique transparent model shows the anatomy of the heart complete with its conducting system represented in colour. The front heart wall is removable and the entire heart can be removed from the stand. 19 x 12 x 12 cm; 0,2 kg

**M-1000266**

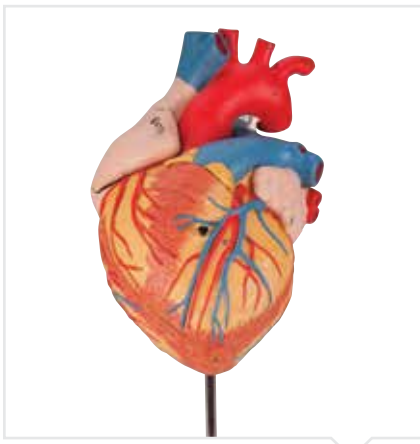


### Fits together with magnet connections!

#### Heart Model, Natural Size

Now, in one detailed model, the study of diastole and systole is finally made straightforward and convenient. This unique dissection makes the viewing of the cardiac valves during diastole with closed pulmonary aortic valves and opened mitral tricuspid valves easier than ever before. In addition to this the closed mitral tricuspid valves and opened pulmonary aortic valves during systole are represented in a second model located on the base. Please see online for full description. 25 x 21 x 13 cm; 1,52 kg

**M-1010006**



**Giant Heart 2 times Life-Size, 4-part**

Our 2 times life-size Giant Heart allows very easy identification of all structures and is a perfect aid for lessons in big classrooms or lecture halls. The anatomy of the human heart is shown in great detail with ventricles, atria, valves, veins, and the aorta. The front heart wall can be removed to reveal the chambers and valves inside. Comes with a removable base and a multilingual product manual. 32 x 18 x 18 cm; 1,3 kg

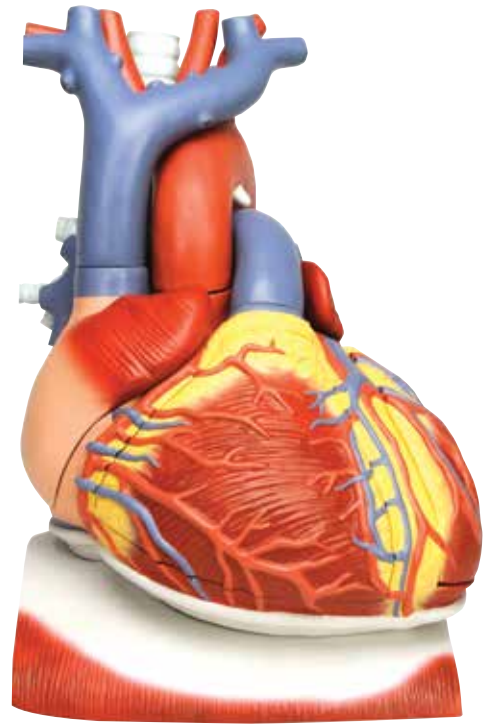
M-1000268



**Classic Heart with Thymus, 3-part**

Same features as M-1017800 with addition of thymus. 20 x 12 x 12 cm; 0,3 kg

M-1000265



**Authentic 3B Scientific® heart models are natural cast replicas!**

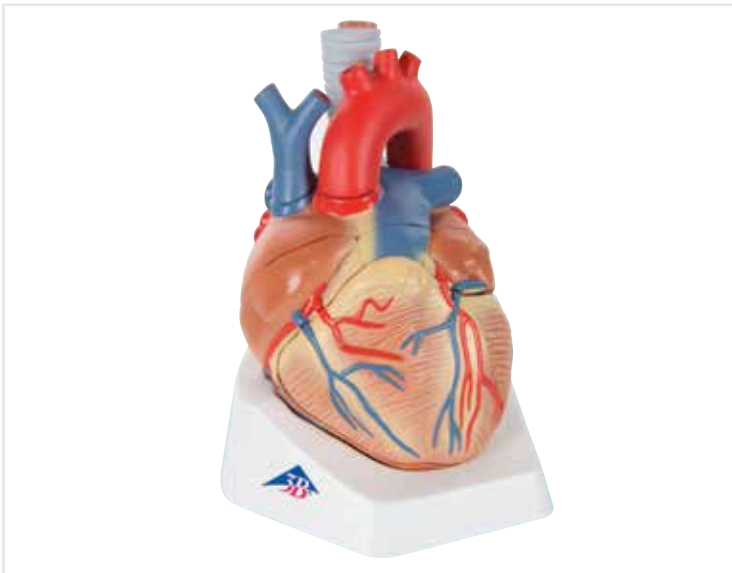
**Heart on Diaphragm, 3 times Life-Size, 10-part**

This unique heart depicts the structures of the heart while detailing how the heart relates to the thoracic diaphragm. Easily show how the diaphragm separates the thoracic cavity from the abdominal cavity. Non-removable base. 41 x 33 x 28 cm; 3,6 kg

*In addition, the following parts of the heart can be removed:*

- Oesophagus
- Trachea
- Superior vena cava
- Aorta
- Pulmonary artery stem
- Both atrium walls
- Both ventricle walls

M-1008547



**Adult Heart, 7-part**

This model shows the anatomy of the human heart and is horizontally sectioned at the level of the valve plane. Delivered on a base. 20 x 15 x 17 cm; 1,1 kg

**The following parts can be removed:**

- Oesophagus
- Trachea
- Superior vena cava
- Aorta
- Front heart wall
- Upper half of the heart

M-1008548

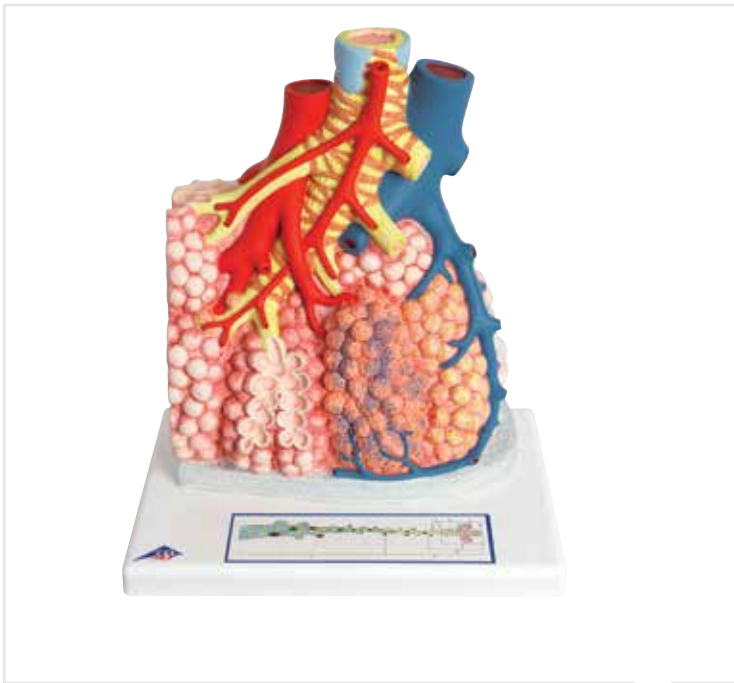


**Giant Heart, 8 times Life-Size**

See every detail of the heart with this giant 8 times life-size model. The atria and ventricles are open to give a view of the interior, and show the accurately modelled bicuspid and major vessels adjacent to the heart coronary heart vessels. On stand.

100 x 90 x 70 cm; 35 kg

M-1001244



#### Pulmonary Lobule with Surrounding Blood Vessels

The model shows the terminal branch of the bronchial tree, the associated pulmonary alveoli, as well as the surrounding blood vessels and their capillary networks. On the right side of the model, the pulmonary lobule is cut in order to facilitate view of the pulmonary tissue structure. The left side of the model shows a section of connective tissue located between adjacent pulmonary lobules. To better understand the gas exchange, a single opened pulmonary alveolus with the surrounding capillary network is shown at the back of the model. A graphic presentation on the base of the model shows the structure of the air passages located in the lung up to the pulmonary alveoli.

26 x 33 x 19 cm; 1,35 kg

M-1008493

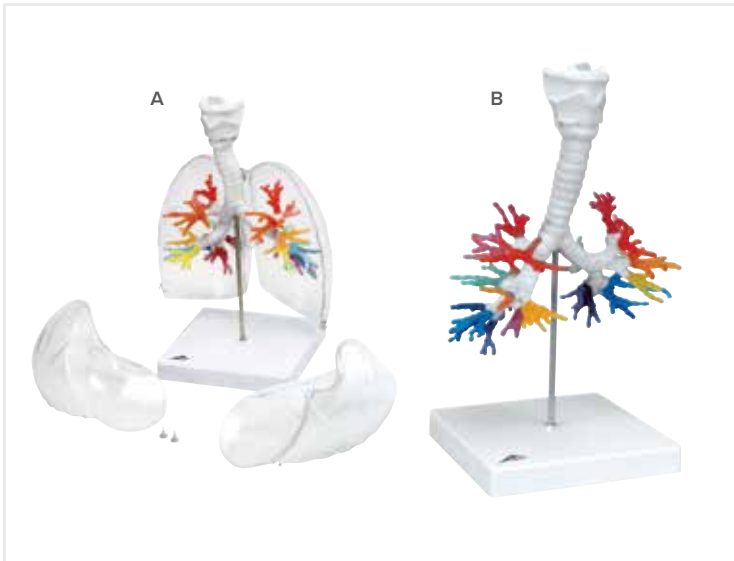


#### MICROanatomy™ Artery and Vein

The model, enlarged 14 times, shows a medium-sized muscular artery with two adjacent veins from the antibrachial area with adjoining fat tissue and muscle. The model illustrates the reciprocal anatomical relationship of artery and vein and the basic functional techniques of the venous valves ("valve function" and "muscle pump").

The left vein and the middle artery are fenestrated in the upper anterior segment, revealing the various layers of the wall structure in a cross and longitudinal section and in top view. The right vein is opened throughout in the anterior segment, revealing the orifice of a feeder vein and two venous valves, i.e. "flap valves" formed by a duplication of the tunica intima. On the back of the model, a relief of two veins illustrates the functional aspect of the venous valves. Supplied on base. 26 x 19 x 18,5 cm; 0,9 kg

M-1000279



#### A. CT Bronchial Tree with Larynx and Transparent Lungs

This unique model was created on the basis of computer tomography data of a human male. The larynx is detachable at the level of the second tracheal cartilage and divisible in the median plane. The epiglottis is mounted flexibly. The various segmental bronchi are made of elastic material and depicted in various transparent colours so that they are easier to distinguish visually. The transparent lungs are detachable.

22 x 18 x 37 cm; 1,23 kg

M-1000275

#### B. CT Bronchial Tree without Lungs

22 x 18 x 37 cm; 0,43 kg

M-1000274

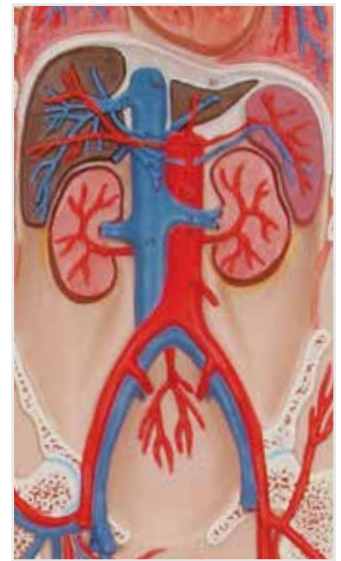


#### ► Bestseller

#### Human Circulatory System

A colourful and anatomically accurate teaching aid of the human circulatory system. Half life-size schematic representation of arteries, veins, capillaries, heart, lung, liver, spleen, and kidneys. 80 x 30 x 6 cm; 3,6 kg

M-1000276







### Segmented Lung

This high quality lung model is detachable into two lobes and single segments. The segments are colour coded and their position can be easily identified in the bronchial tree. The bronchial tree contains the lobar bronchi and segmental bronchi.

All segments are connected by magnets which allow a safe and easy handling. 25 x 25 x 35 cm; 4,1 kg

**M-1008494**



### Life-Size Lung Model with Larynx, 7-part

The lung model with larynx is first class. 31x 41x 12 cm; 2,2 kg

**This first class model comes on a baseboard and contains the following removable parts:**

- 2-part Larynx
- Trachea with bronchial tree
- 2-part Heart
- Subclavian artery and vein
- Vena cava
- Aorta
- Pulmonary artery
- Oesophagus
- 2-part Lung
- Diaphragm

**M-1000270**



### Life-Size Lung Model with Larynx, 5-part

Delivered on baseboard. 12 x 28 x 37 cm; 1,25 kg

**Showing the following features:**

- Larynx
- Trachea with bronchial tree
- 2-part Heart
- Vena cava
- Aorta
- Pulmonary artery
- Oesophagus
- 2-part Lung

**M-1001243**



### Functional Larynx, 2.5 Times Full-Size

The epiglottis, vocal cords, and arytenoid cartilage are movable.

14 x 14 x 28 cm; 0,8 kg

**Additionally representing the following structures:**

- Hyoid bone
- Cricoid cartilage
- Thyroid cartilage
- Thyroid
- Parathyroid glands

**M-1013870**



### Larynx, 2 Times Full-Size, 7-part

This medially sectioned model shows: larynx, hyoid bone, windpipe, ligaments, muscles, vessels, nerves and thyroid gland. The Thyroid cartilage, 2 muscles and 2 thyroid gland halves are removable. On stand. 12 x 12 x 23 cm; 0,8 kg

**M-1000272**



### Larynx, 2 Times Full-Size, 2-part

This model partially shows the same features as M-1000272. However, it is only dividable into two halves.

9 x 9 x 14 cm; 0,15 kg

**M-1000273**



### Functional Larynx

Epiglottis, vocal cords, and arytenoid cartilage are movable. Can be rotated on base. 32 x 13 x 15 cm; 0,8 kg

**M-1001242**

► **Bestseller**

**Digestive System, 3-part**

This life-size model demonstrates the path food takes through the body during digestion. The duodenum, cecum, and rectum are opened. The liver, stomach, and transverse colon are removable. Mounted on baseboard. 81 x 33 x 10 cm; 4,4 kg

*The entire digestive system is illustrated in graphic relief featuring:*

- Nose
- Oesophagus
- Pancreas
- Spleen
- Mouth Cavity and Pharynx
- GI Tract
- Liver with Gall Bladder

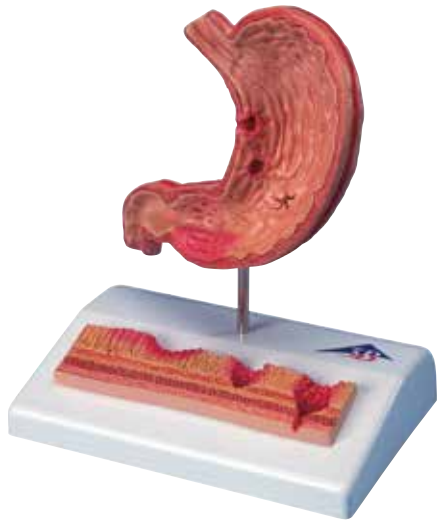
M-1000307



**MICROanatomy™ Digestive System**

The model illustrates the structure of the fine tissues of four characteristic sections of the digestive system: The Oesophagus, Stomach, Small intestine and Large intestine. The front of the model, from top to bottom, shows a magnified view, in histological section, of the individual sections of the digestive system and their fine tissue structures. The back of the model has highly magnified views of didactically interesting areas of each section shown on the front. 29,5 x 26 x 18,5 cm; 1,5 kg

M-1000311



**Stomach with Ulcers**

This 3B Scientific® pathology model demonstrates various stages of gastritis, from a light gastric ulcer to a perforation. Mounted on base. 14 x 10 x 17 cm; 0,3 kg

*The stomach section, with Oesophagus and duodenum attachment in half life-size, shows the following pathological changes:*

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

*An additional relief model of the enlarged stomach wall shows:*

- Healthy mucous membrane
- Acute gastritis in the antral area
- Erosive gastritis with mucous membrane defects
- Bleeding ulcer (eroded muscularis mucosae)
- Perforated ulcer (all stomach layers eroded)

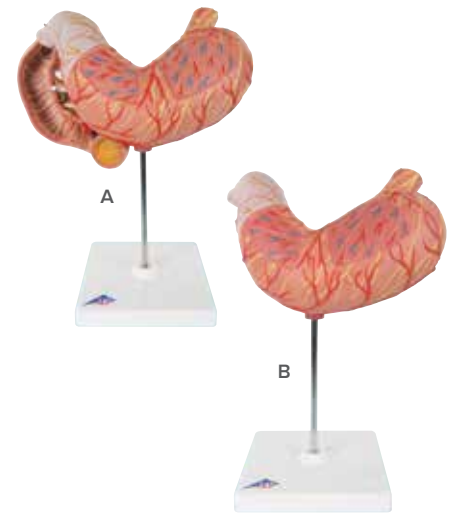
M-1000304



**Diseases of the Oesophagus**

Reaching from the lower part of the Oesophagus to the upper part of the stomach, this vivid, life-size frontal section shows many common conditions. See online for conditions shown. 14 x 10 x 19 cm; 0,2 kg

M-1000305



**A. Stomach, 3-part**

Shows the layers of the stomach wall from cardia to pylorus. The front stomach half and the opened duodenum with pancreas are removable. Delivered on removable stand. 25 x 22 x 12 cm; 0,8 kg

*Depicted are:*

- Layers of stomach wall
- The lower Oesophagus
- Duodenum
- Pancreas
- Vessels
- Nerves

M-1000303

**B. Stomach without Pancreas, 2-part**

The stomach model shows the different and individual layers of the stomach wall. The front half of the stomach is removable for detailed study of the anatomy of the human stomach. 25 x 22 x 12 cm; 0,6 kg

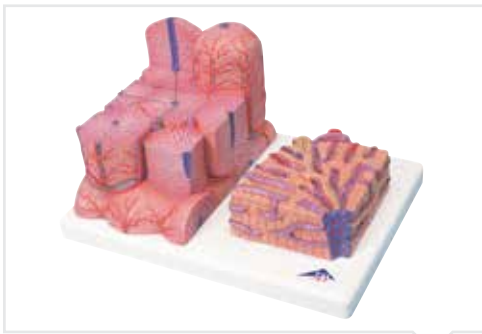
M-1000302



**Intestinal Villi, 100 Times Life-Size**

Consisting of one entire villus, one longitudinally sectioned villus showing the arterioles and venules and one sectioned villus to show the lymphatic vessels. Also includes a longitudinal section of the crypt of Lieberkühn's. On base. 43 x 28 x 10 cm

M-1005532

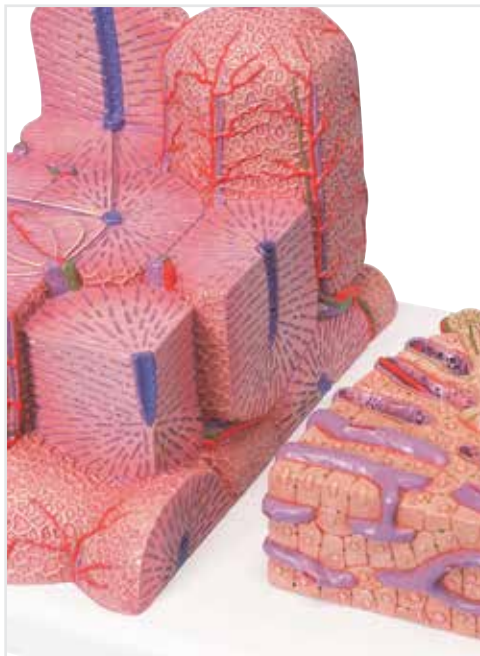


► **Bestseller**

**MICROanatomy™ Liver**

This 2-part model shows a highly magnified view of a section of the liver. It illustrates the functional and structural components with two different enlargements. The left part shows a section of the liver that comprises several liver lobules. The right part of the model is a highly magnified view of the sectioned liver lobule on the left. 15 x 26 x 18,5 cm; 0,7 kg

**M-1000312**



**Liver with Gall Bladder, Pancreas and Duodenum**

*This highly-detailed relief model provides a detailed look at the liver with:*

- Ducts
- Gall bladder
- Pancreas
- Duodenum
- Vessels
- Extrahepatic ducts with gall bladder
- Main pancreatic duct and their orifices

4 x 20 x 18 cm; 0,8 kg

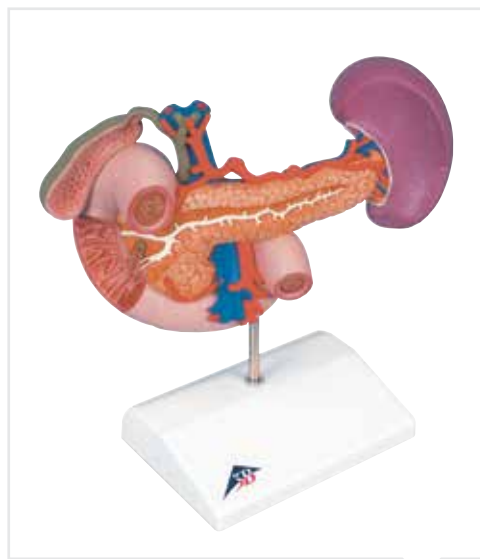
**M-1008550**



**Kidneys with Vessels, 2-part**

Life-size model presenting the kidneys with suprarenal glands, the outgoing ureters, the renal vessels, and the large vessels situated close to the kidneys. The front half of the right kidney can be removed to reveal the renal pelvis, the renal calices, the renal cortex, and the renal medulla. Comes on stand. 21 x 18 x 28 cm; 1 kg

**M-1000308**



**Rear Organs of Upper Abdomen**

Representing the duodenum, which is partially opened, along with opened gall bladder and bile ducts. The model also includes the pancreas, revealing large ducts, the spleen, and the surrounding vessels, all in natural size. Comes on stand. 23 x 12 x 20 cm; 0,55 kg

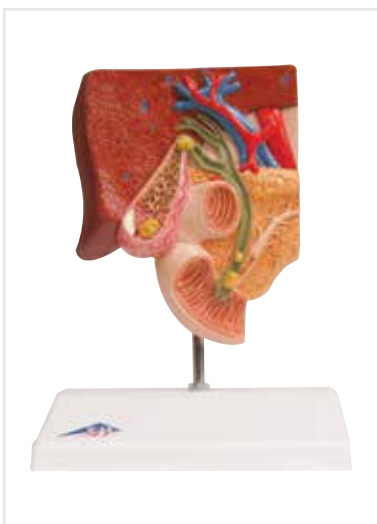
**M-1000309**



**Kidneys with Rear Organs of Upper Abdomen, Combo Model, 3-part**

A combination of models M-1000308 and M-1000309. The 3-part model includes upper abdominal organs which are attached in their natural positions and are removable from the kidneys. Comes on stand. 24 x 18 x 29 cm; 1,4 kg

**M-1000310**



**Gallstone Model**

The anatomy of the biliary system and its surroundings are shown at half natural size in this graphic model for education. Both acute inflammation and the tissue changes caused by chronic inflammation can be identified in the gallbladder wall. Mounted on base. 14 x 10 x 19 cm; 0,2 kg

**M-1000314**



**Liver with Gall Bladder**

This high quality liver with gallbladder replica is delivered on removable stand. 18 x 18 x 12 cm; 0,5 kg

*This realistic liver with gall bladder shows:*

- 4 Lobes with gall bladder
- Extrahepatic ducts
- Hilus vessels.

**M-1014209**





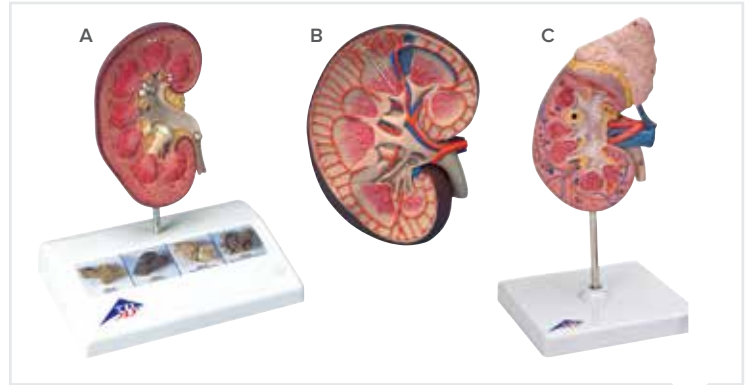
### MICROanatomy™ Kidney

This extremely detailed model shows the functional units of the kidney greatly magnified. Mounted on a base. 23,5 x 25,5 x 19 cm; 1,3 kg

**Six model zones illustrate the following fine-tissue structures:**

- Longitudinal section of a kidney
- Section of renal cortex and renal medulla of the kidney
- Wedge-shaped section of a kidney lobe with three nephrons with Henle's loops of different lengths and diagrammatic depiction of the vascular supply
- Nephron with a short Henle's loop and didactic illustration of the vascular supply
- Opened renal corpuscle with nephron and light-microscopic transverse sections of the proximal, attenuated and distal segments of a renal tubule

M-1000301



### A. Kidney Stone Model

A great tool to inform patients about kidney stones and urinary stones. It shows an opened right kidney in natural size. 14 x 10 x 16,5 cm; 0,18 kg

**The renal calices, the renal pelvis, and the ureter are opened as well as enabling concretions or stones to be identified in the following typical positions:**

- In the area of the renal pyramids
- In the area of origin of the upper calix group
- In the renal cortex
- In the connecting tubule of the lower calix group, causing congestion of the minor calices (partially closed, partially opened) in the ureter
- 4 original colour pictures on the base show various kidney stones.

M-1000316

### B. Kidney Section, 3 Times Full-Size

This colourful and anatomically accurate model depicts a longitudinal section of the human right kidney. All important structures of the human kidney are shown. No baseboard included. 8,5 x 19 x 26 cm; 0,9 kg

M-1000295

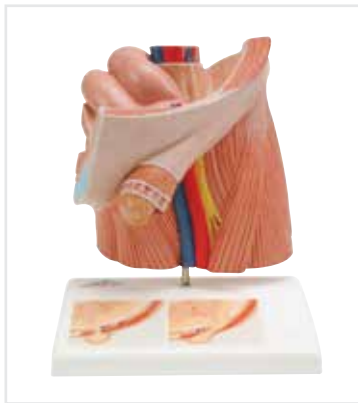
### C. Kidney with Adrenal Gland, 2-part

The front half of the kidney is removable to enable demonstration of cortex medulla and vessels for teaching about the human kidney. The renal pelvis of the kidney is also displayed. 20 important structures of the human kidney are included in the anatomy key. Kidney with adrenal gland model comes on stand. 20 x 12 x 12 cm; 0,3 kg

**This high quality human kidney model shows:**

- Kidney with adrenal gland
- Renal and adrenal vessels of the kidney
- Upper portion of ureter for the human kidney

M-1014211



### Inguinal Hernia Model

A useful model to help inform patients before undergoing surgical interventions. This natural-sized, graphic model shows the anatomical structures of a male groin with an indirect inguinal hernia, opened in layers. Two illustrations on the base allow for a comparison of direct and indirect hernias. Mounted on base. 14 x 10 x 18 cm; 0,28 kg

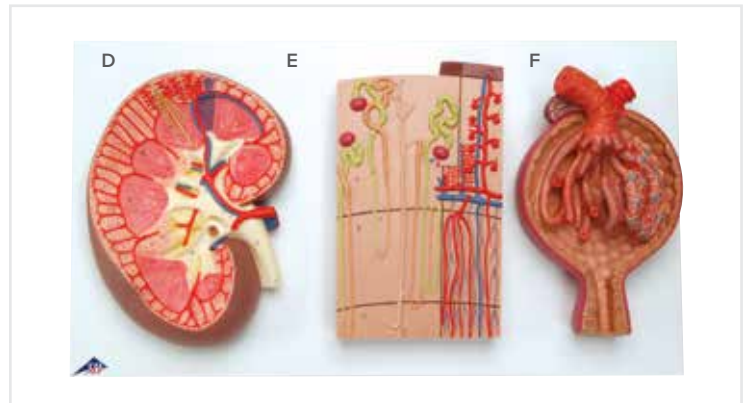
M-1000284



### Haemorrhoid Model

The model is a life-size frontal section of the rectum as well as a smaller relief on a pedestal. In addition to the anatomical structures of the rectum (sphincter, mucous membrane, venous plexus), the model shows internal haemorrhoids during stage I and II as well as external haemorrhoids. The relief exhibit shows haemorrhoids during stage III and IV. Mounted on base. 14 x 10 x 14 cm; 0,2 kg

M-1000315



### Kidney, Nephrons, Blood Vessels and Renal Corpuscle

A complete series of 3 models mounted on a baseboard allowing study of the kidney and its different structures in great detail. 29 x 52 x 9 cm; 2,8 kg

**Together they show:**

- A longitudinal section of the right kidney, 3 times life-size (M-1000296)
- A nephron depicting a section through renal cortex and medulla. Also features the renal corpuscles with proximal and distal convoluted tubules, loops of Henle, collecting tubules, and blood vessels. 120 times life-size (M-1000296)
- An opened Malpighian corpuscle with glomerulus and Bowman's capsule. 700 times full-size (M-1000298).

M-1000299

**Available Individually:**

- |                                   |           |
|-----------------------------------|-----------|
| D. Kidneys                        | M-1000296 |
| E. Nephrons and Blood Vessels     | M-1000297 |
| F. Malpighian Corpuscle of Kidney | M-1000298 |



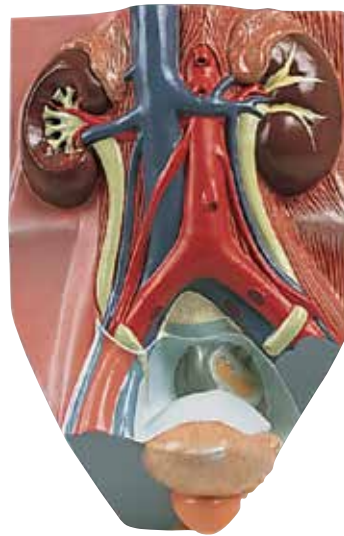
### Dual-Sex Urinary System, Life-Size, 6-part

All in one model of the human urinary system. One front half kidney is removable; easy to change male insert (bladder and prostate, front and rear half) and female insert (bladder, womb and ovaries, 2 lateral halves). On baseboard. See online for full features.

41 x 31 x 15 cm; 2,3 kg

- Structures of retroperitoneal cavity
- Large and small pelvis with bones and muscles
- Inferior vena cava
- Aorta with its branches including iliacal vessels
- Upper urinary tract
- Rectum
- Kidney with adrenal gland

M-1000317



### Male Urinary System, 3/4 Full-Size

This urinary system model shows the structures of the retroperitoneal cavity in high detail. The right kidney of the male urinary system model is opened. See online for full details and list of structures represented. Urinary system model is not delivered on base.

10 x 18 x 26 cm; 1 kg

M-1008551

A



B



### Female & Male Pelvis, 2-part

These life-size models present a median section to show the normal position of organs within the adult pelvis. One half of the reproductive organs along with the bladder and rectum are removable. Each is delivered on a baseboard and can be wall-mounted if desired.

#### A. Female Pelvis

41 x 31 x 20 cm; 2,2 kg

M-1000281

#### B. Male Pelvis

41 x 31 x 17 cm; 2,5 kg

M-1000282



### Male Pelvic Skeleton

Consisting of hip bone, sacrum with coccyx and two lumbar vertebrae. 18 x 28 x 23 cm; 0,8 kg

M-1000133



### Female Pelvic Skeleton

Consisting of hip bone, sacrum with coccyx, and two lumbar vertebrae; including movable symphysis. 19 x 25 x 24 cm; 0,9 kg

M-1000134



### Female Pelvic Skeleton w/ movable Femur Heads

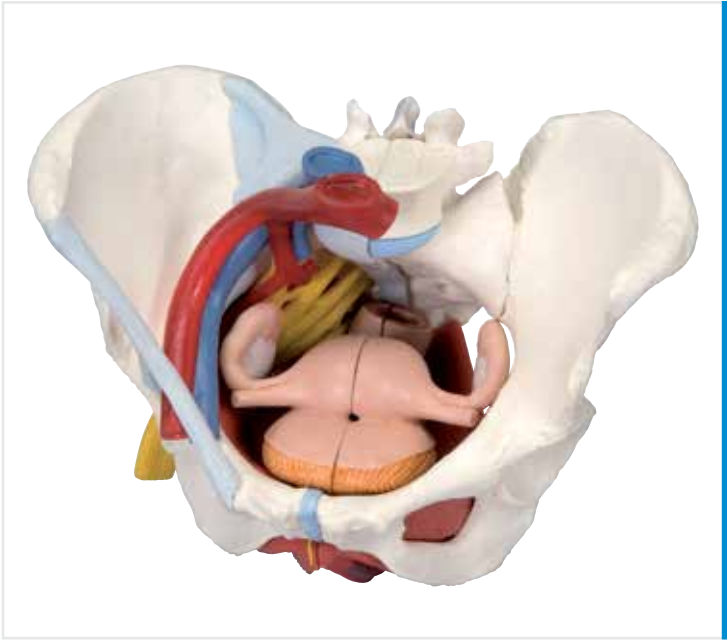
This realistic pelvic skeleton model consists of hip bone, sacrum with coccyx and 2 lumbar vertebrae as well as movable symphysis. 30 x 30 x 20 cm; 1,2 kg

M-1000135



### Pelvic Skeleton Features:

- Natural Cast
- Medical Quality
- Unbreakable Durable Plastic



## Magnetic closures snap together easily!

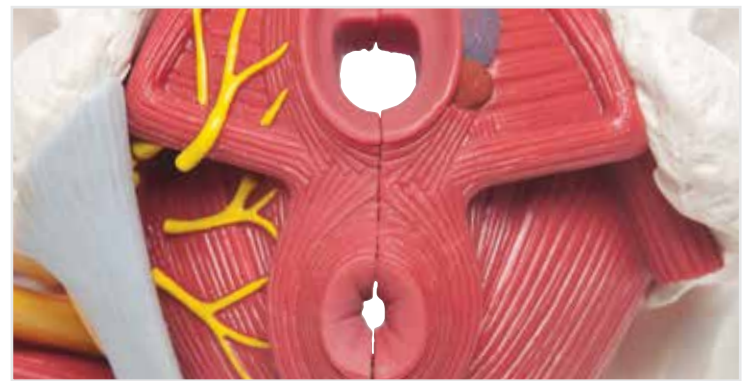
### Female Pelvis with Ligaments, Vessels, Nerves, Pelvic Floor and Organs, 6-part

This original cast of a female pelvis shows bones, ligaments, vessels, nerves, pelvic muscles and organs. The whole pelvic floor is represented with partially removable midsagittally sectioned external anal sphincter, external urethral sphincter, deep and superficial transverse perineal and bulbospongiosus. Rectum, uterus with fallopian tubes and ovaries and vagina are removable and can be disassembled into halves by midsagittal section. The right pelvic half demonstrates the divisions and topographical anatomy of the common iliac artery, the external and internal artery, the common iliac vein and the external iliac vein. In addition, the right sacral plexus, right sciatic nerve and right pudendal nerve are shown. 19 x 27 x 19 cm; 1,6 kg

**M-1000288**

*"The pelvic floor is the most difficult area of study in gross anatomy. (With the M-1000288 pelvic model) The students can look at the pelvic floor from above, the side and below. They can study the perineum that is attached inferiorly at the pelvic floor... You are bringing an excellent model on the market!"*

-Professor Ebo Sauerland, University of Nevada School of Medicine



### Female Pelvis, 3-part

Detailing the structures of the bony pelvis: Hip bones, pubic symphysis, sacrum, coccyx, L5 (removable) with intervertebral disc. Sacrum and the coccyx can be disassembled to show part of the cauda equina in the vertebral canal. 19 x 27 x 19 cm; 0,9 kg

**M-1000285**



### Female Pelvis with Ligaments, 3-part

Accurately presenting the following ligaments: Inguinal, sacrotuberous, sacrospinous, anterior sacroiliac, iliolumbar, anterior longitudinal, interosseous sacroiliac, posterior sacroiliac and obturator membrane. 19 x 27 x 19 cm; 1 kg

**M-1000286**



### Female Pelvis with Organs, Pelvic Floor & Ligaments, 4-part

Bones, ligaments, and pelvic floor muscles with pelvic organs midsagittally sectioned to illustrate their relationship to the pelvic floor muscles. 19 x 27 x 19 cm; 1,3 kg

**M-1000287**





### Childbirth Demonstration Pelvis

This model demonstrates the progress of a full-term foetal head through the pelvis during birth. The simulator consists of a female pelvic skeleton with a movable symphysis, hip bone, sacrum, coccyx, and 2 lumbar vertebrae. It is articulated to accommodate passage of a foetal skull which is mounted on an omni-positioning flexible gooseneck support. Delivered on baseboard. 33 x 26 x 18 cm; 1,8 kg

**M-1000334**



### Female Pelvic Skeleton with Genital Organs, 3-part

This model is especially suitable for studying the position of female genital organs in the pelvis. It consists of a natural cast female pelvis with a movable symphysis, hip bone, sacrum, coccyx, 4th and 5th lumbar vertebrae, and a female genital insert with rectum. The bladder and a portion of the uterus with one fallopian tube and ovary can be removed. The soft tissues are moulded from durable, soft vinyl. Delivered on base. 33 x 26 x 18 cm; 2 kg

**M-1000335**



### Male Pelvis, 3-part

This 3-part model is a natural cast of a male, bone pelvis. It shows all anatomical structures in detail: both hip bones, pubic symphysis, sacrum and coccyx as well as the fifth lumbar vertebra with intervertebral disc. A median section has been placed through the fifth lumbar vertebra, the sacrum and the coccyx, so that the pelvis, which is held together by practical magnets, can be split into two halves. This means that part of the cauda equina is also visible in the vertebral canal. The left half of the fifth lumbar vertebra is held together by magnets and can also be removed. 19 x 28 x 24,5 cm; 1,35 kg

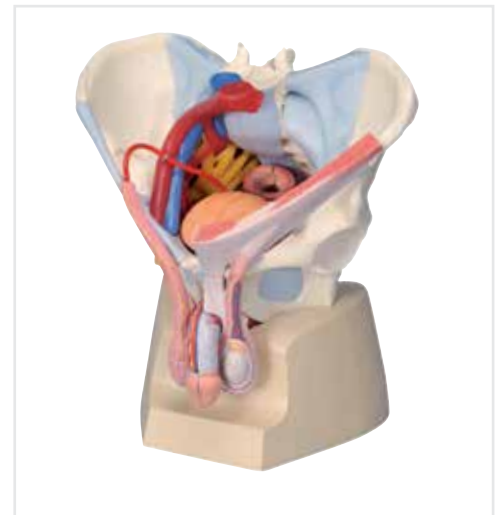
**M-1013026**



### Male Pelvis with Ligaments, 2-part

This 3-part model is a natural cast of a male, bone pelvis. It shows all anatomical structures in detail: both hip bones, pubic symphysis, sacrum and coccyx as well as the fifth lumbar vertebra with intervertebral disc. A median section has been placed through the fifth lumbar vertebra, the sacrum and the coccyx, so that the pelvis, which is connected by practical magnets, can be split easily into two halves. This means that part of the cauda equina is also visible in the vertebral canal. 19 x 28 x 24,5 cm; 1,66 kg

**M-1013281**



### Male pelvis with ligaments, vessels, nerves, pelvic floor and organs, 7-parts

This 7-part model of the male pelvis accurately shows how the bones, ligaments and pelvic floor muscles interact. This medianly divided model is connected with magnets to allow for easy separation into two halves. The right side of the pelvis shows the external anal sphincter, rectum, bladder, prostate and penis. Layers of skin have been removed from the penis and scrotum so vessels, nerves and internal structures are visible. Over 120 structures are identified. Comes with sturdy base for display. 21 x 28 x 31 cm; 3,12 kg

**M-1013282**



**Model for Gynaecological Patient Education**

Ideal for demonstration purposes and for practising insertion of female barrier contraceptive devices. Including the femidom, cervical cap, vaginal ring, diaphragm and IUD. It is possible to insert the various types of pessaries such as ring, bowl or cube which are used in the event of a prolapse or incontinence. 26 x 19 x 22 cm; 1,5 kg

**M-1013705**

**Optional Kits**

- A. Contraception Kit **M-1017130**
- B. Pessary Kit **M-1017131**



**Stages of Fertilisation and The Development of The Embryo, 2 times Life-Size**

Schematic illustrations show how an ovum matures, how ovulation and fertilisation occur, and how the fertilised ovum develops to the point of embedding itself in the womb wall to begin growth into an embryo. The various stages are shown in larger-than-life model form in the ovary, fallopian tube, and womb. An even more enlarged illustration of each is printed on the base. 35 x 21 x 20 cm; 1,2 kg

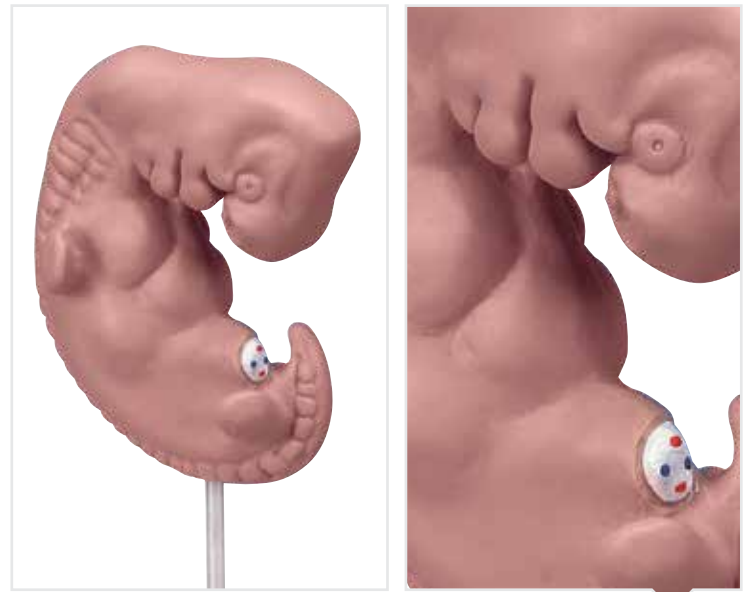
**M-1000320**



**Embryonic Development Model in 12 stages**

The model represents the development of the human germ cells from fertilisation until the end of the 2nd month of pregnancy in 12 stages. Each stage can be removed from the common stand as an individual part and can be purposefully used for teaching and tests for the embryological specialist field. 65 x 34,5 x 6 cm; 1,55 kg

**M-1001257**



**Human Embryo Model**

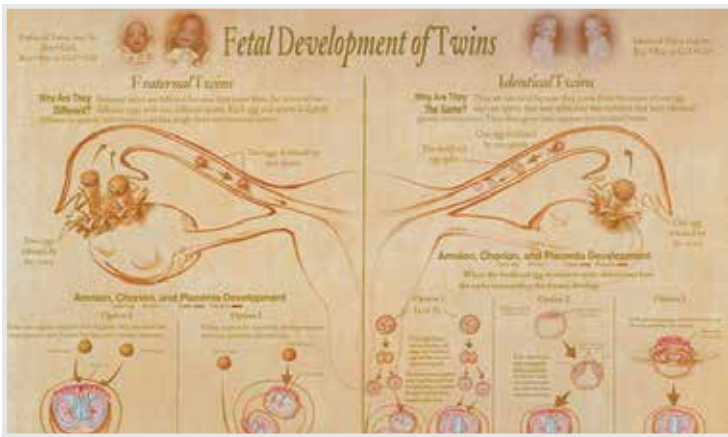
This human embryo model shows the anatomy of an embryo at approximately 4 weeks old. At 25 times life-size this human embryo is great for studying human development. The high quality model is affordable without sacrificing any anatomical detail. 2 x 12 x 23 cm; 0,3 kg

**M-1014207**

**25 times life-size!**

Have questions about our products? Visit us at **3bscientific.com!**





**Foetal Development & Presentation of Twins Chart**

This two-sided chart is excellent for teaching childbirth professionals and for educating parents. One side shows the development of fraternal and identical twins, including identical twins sharing a placenta. The other side shows the six possibilities of foetal presentation for twins. Available in English only. Laminated.

M-1018282



**Reproductive System Activity Sets**

|                            |           |
|----------------------------|-----------|
| Menstrual Cycle            | M-1005481 |
| Birth                      | M-1018406 |
| Meiosis                    | M-1005485 |
| Mitosis                    | M-1005484 |
| Cell to Embryo             | M-1018403 |
| Four Month Foetus          | M-1018404 |
| Full Term Foetus           | M-1018405 |
| Female Reproductive System | M-1005483 |
| Male Reproductive System   | M-1005482 |

**All 9 Activity Sets**

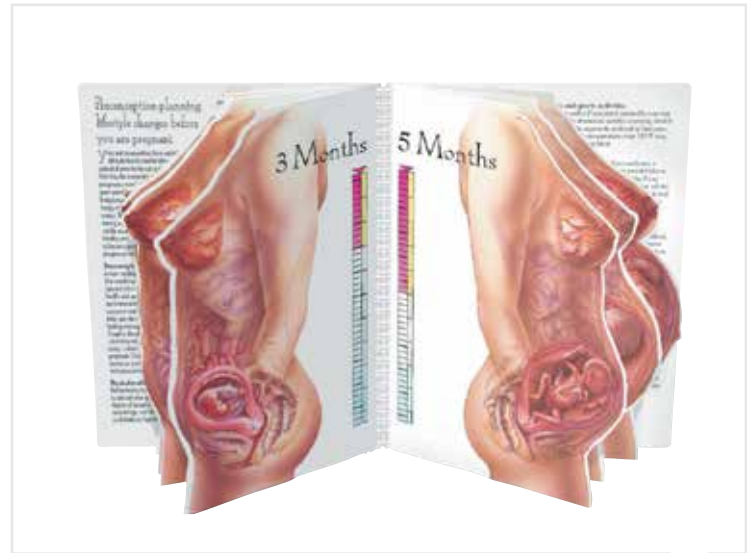
Significant savings when you purchase the complete set of nine activities.  
M-1005480



**Visual Anatomy Oversize Wall Charts**

A valuable educational supplement for use in schools, universities and medical facilities. These impressive charts are supplied with a detailed, six-language product manual including scientifically correct nomenclature. Printed on waterproof, tear resistant paper. Each chart is available with or without wooden mounting rods, please specify when placing order. 84 x 118 cm; 0,4 kg

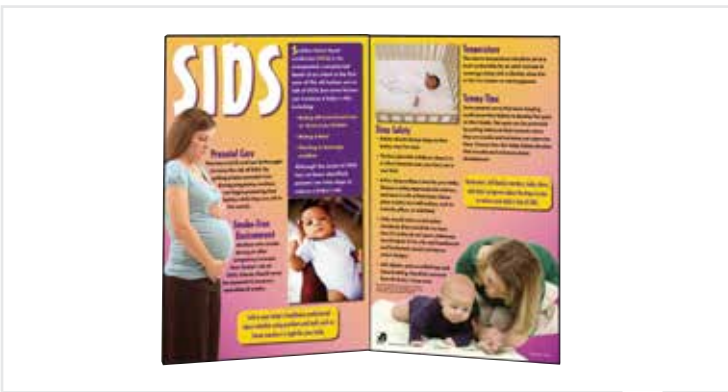
|                        |              |
|------------------------|--------------|
| Menstrual Cycle & Ovum | Embryology I |
| Implantation           | M-1001222    |
| M-1001220              | M-4006560    |
| M-4006559              |              |



**Life in the Womb: "With Child" Display**

Reviewing anatomical development from conception to six weeks postpartum is made easy with the accompanying "With Child" life-size display. Available in English only.

45,7 x 61 cm  
M-1018275



**SIDS Tabletop Display**

Although all babies are at risk of sudden infant death syndrome (SIDS), parents and other caregivers can reduce the risk by taking steps such as creating a safe-sleep environment that always includes back sleeping. Also addresses prenatal care, smoke-free environments, and appropriate room temperature. Available in English only.

M-1018303



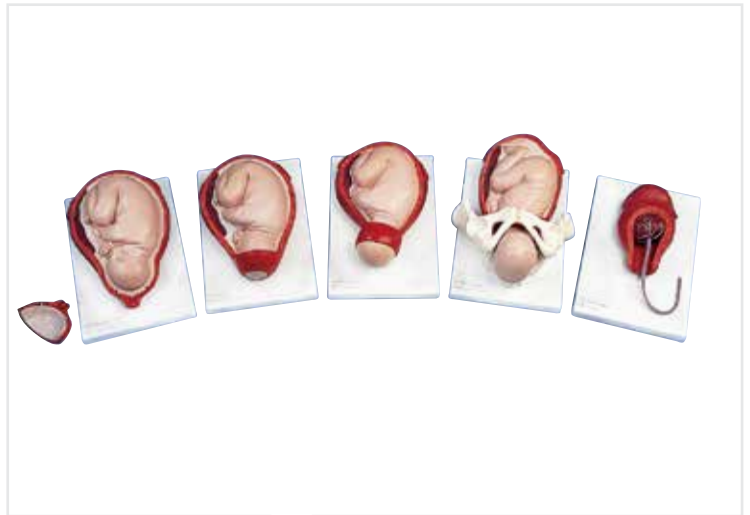


### Classic 3B Scientific® Pregnancy Series

Study human development from the 4th week through the 7th month. Our most popular series includes eight models to show the complete stages of development. All embryo or foetus models are shown in different typical positions in the uterus and each is mounted separately on an individual stand. The five later stages of development allow the foetus to be removed. Ask your Sales Rep about purchasing individual models or visit [3bscientific.com](http://3bscientific.com) for product details. 12 x 12 x 19 cm; 3,2 kg

- 1st Month Embryo
- 2nd Month Embryo
- 3rd Month Embryo
- 4th Month Foetus (Transverse Lie)
- 5th Month Foetus (Breech Position)
- 5th Month Foetus (Transverse Lie)
- 5th Month Twin Foetuses (Normal Position)
- 7th Month Fetus

M-1000321



### Birth Process, 5 Stages

Anatomical representation of human birth. 5 stages of the birthing process, mounted individually on bases. 17 x 28 x 46 cm; 8,6 kg

- Foetus in womb, cervix closed; 2-part
- Foetus in womb, cervix open
- Foetus in womb, start of head passage
- Foetus in womb and pelvis, finish of head passage
- Placenta in womb

M-1001258



### Standard 3B Scientific® Pregnancy Series

This series consists of five models to show the most important stages of development. Stages included: 1st month, 2nd month, 3rd month, 5th month, 7th month. The 5th and 7th month stages have detachable fetuses. All models are mounted together on a base. 13 x 41 x 31 cm; 2,1 kg

M-1000331



### Labor Stages Model

Like M-1001258 anatomical representation of human birth, but reduced in size to 50%. The birth model is supplied on baseboard. 5 stages of human birth, mounted individually on bases. 40 x 31 x 13 cm; 1,4 kg

- Foetus in womb; cervix closed
- Foetus in womb, cervix open
- Foetus in womb, start of head passage
- Foetus in womb and pelvis, finish of head passage
- Placenta in the womb
- The human birthing process in 5 realistic anatomical models.

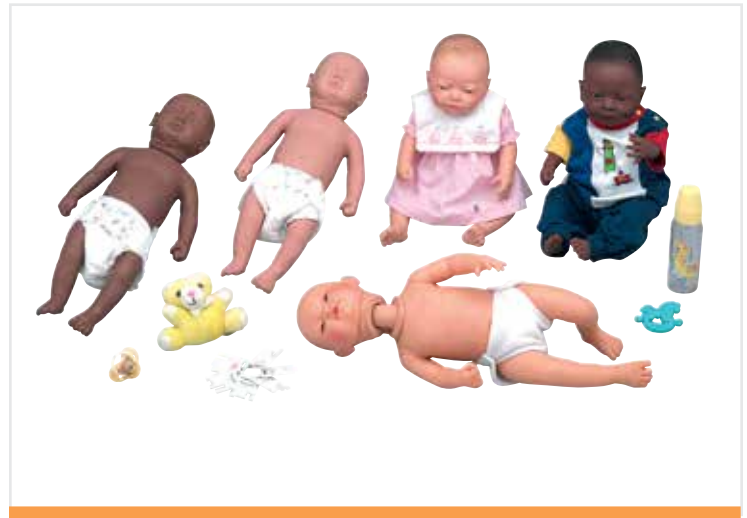
M-1001259



### Shaken Baby Demonstration Model

An infant's vulnerability to shaken baby syndrome (SBS) is powerfully demonstrated with this model. The model's translucent head allows viewers to see how a baby's brain can be harmed. It also emphasises the importance of supporting an infant's neck. Helps teach prevention of SBS, which can have devastating consequences including permanent brain damage, blindness, and death. SBS tear pad also available. 48 cm long.

M-1017928



### Ready or Not Tot®

The original manikin that simulates a baby's varying needs! Take the glamour out of teen pregnancy and demonstrate the realities of the real world to your students.

You never have to worry if students neglected the manikin. Ready-or-Not Tot® uses set programs so the teacher always knows when the manikin required care. Student response to the manikin's needs are easily checked using the template provided.

Comes complete with one set of student keys, one set of teacher keys, reproducible parental consent form/permission slip, reproducible student response sheet, teacher correction template, nappy, 9V battery, and instructions.

|              |           |              |           |
|--------------|-----------|--------------|-----------|
| White Male   | M-1017931 | Black Male   | M-1018137 |
| White Female | M-1017932 | Black Female | M-1018138 |



### Empathy Belly

This unique pregnancy simulation allows both female and male wearers to experience over 20 symptoms and effects of being pregnant. Through the use of a rib belt and the strategic positioning of various weighted components, the Empathy Belly simulates many of the physical and emotional effects of being pregnant. This hands-on garment is a wonderful teaching and learning tool. For teenagers, the Empathy Belly provides a tangible example of what it means to be pregnant.

|        |           |
|--------|-----------|
| Medium | M-1017929 |
| Large  | M-1017930 |



### Care Babies

Ideal model for training the main principals of baby care at school and in preparation courses for young parents. It allows dressing, undressing, washing, changing nappy, and many other procedures. Care babies are realistically newborn sized and can be dressed in ordinary baby clothes. The doll has movable joints and its eyes are slightly opened.

|                              |                   |                       |
|------------------------------|-------------------|-----------------------|
| <b>African-American Baby</b> | <b>Asian Baby</b> | <b>Caucasian Baby</b> |
| Male M-1005092               | Male M-1005090    | Male M-1005088        |
| Female M-1005093             | Female M-1005091  | Female M-1005089      |



### Progression of Baby Bottle Tooth Decay Display

This model serves as a graphic reminder to parents of the damaging tooth decay that can occur if a baby or young child is put to bed with a bottle of juice, breastmilk, formula, or any other liquid containing sugar. Mounted on plastic base. 26,67 x 8,89 x 8,89 cm

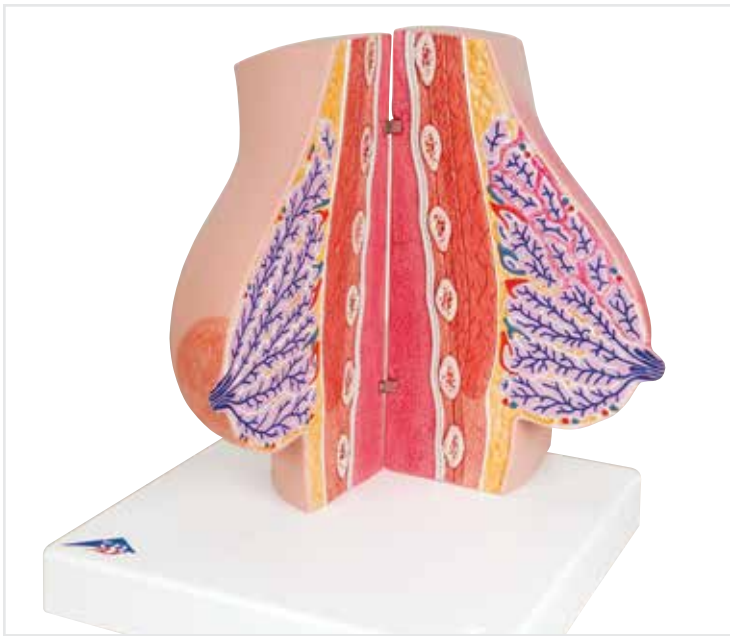
M-1018298



### Baby Bottle Tooth Decay Model

Cast from a child's mouth, this hinged model shows that the sugars that coat a baby's mouth while sleeping with a bottle can cause dental disease. Comes with a coordinating tear pad. The 21 x 28 cm tear pad is English on one side and Spanish on the other and has 100 sheets per pad.

5,71 cm x 4,13 cm x 5,08 cm  
M-1018302

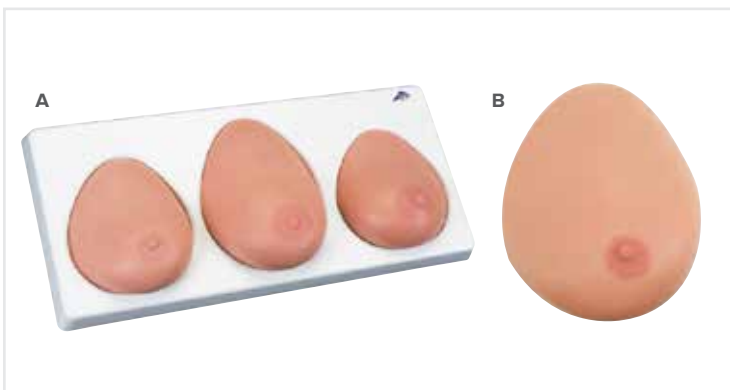


### Fits together & hinges on magnetic connections!

#### Female Breast Models

The models include an example of a lactating right breast and a non-lactating left breast. Both parts of the model have a sagittal cut showing the tissue of the breast gland as well as the deeper-lying anatomical structures such as the muscles, ribs, costal pleura, pulmonary pleura and lungs. A breast gland inflammation (mastitis) is represented on the right breast and various other diseases on the left breast including a benign tumour, two malignant tumours, and two cysts. The models are fixed together via magnets.

M-1008497



#### Breast Self Examination Model

Very realistic natural casting of three different female breasts in C and D cups, to train and practise breast examination. Supplied with base and talcum powder.

52 x 24,5 x 9,5 cm; 2,3 kg

- Made of new 3B SKINlike™ high-quality silicone
- Benign and malignant tumours in different stages of development are featured in two breasts
- A healthy breast is supplied for comparison

A. Set M-1000344  
B. Single Breast M-1000345



#### Wearable Breast Self Exam Model with Case

Demonstrate realistic self-examination with our natural casting of a female upper body with C cup breasts. It can easily be worn, in order to better train and practise breast self-examination. Includes: Multilingual product manual, "Female Breast" chart M-1001576, talcum powder, harness, stand, aluminum carrying case.

- Made of new 3B Scientific® SKINlike™ high-quality silicone
- Breast examination is possible in both upright and lying positions
- Benign and malignant tumours in different stages of development sharpen self-examination skills

Model with case M-1000342  
Model without case M-1000343



#### Advanced Breast Exam Simulator

The Advanced Breast Exam Simulator offers unparalleled realism for teaching both clinical and self-breast examination. Tissue density varies within the simulated breast, just as it does in a live patient. Tumours of varying sizes, shapes, and densities can be inserted for an expanded combination of training scenarios. Tumours represent adenomas, cysts, malignant tumours, and enlarged lymph nodes. The trainer features palpable ribs, sternum and clavicles, and enlarged lymph nodes in the axillary and subclavicular areas. Includes a rigid underbody, right and left breast inserts, overlay skin, three tumour sets (27 lumps), baby powder, hard carrying case, and instruction manual. 35,6 x 27,9 x 15,2 cm; 7,71 kg

M-1017235

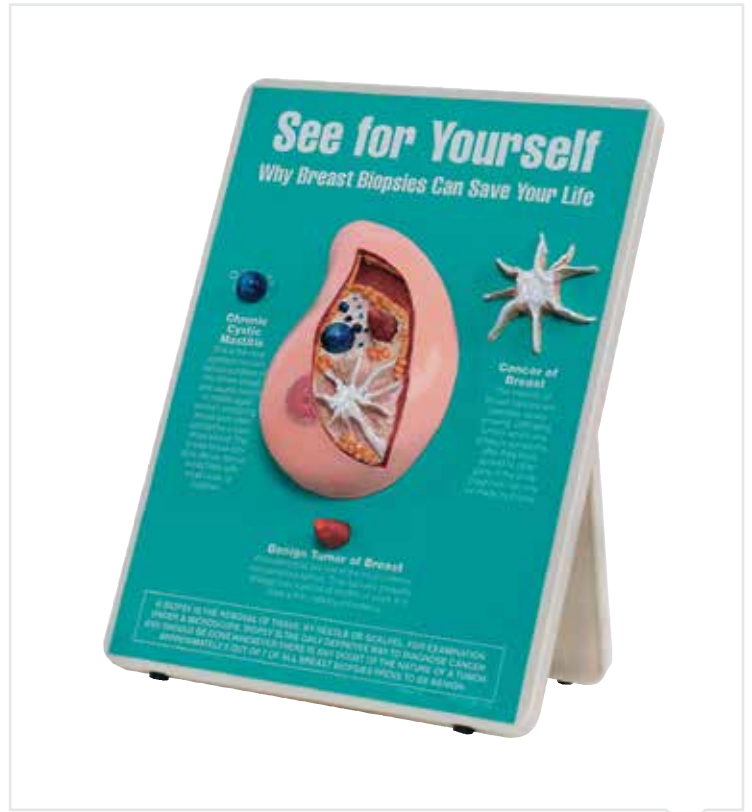




### Why PAP Tests Can Save Your Life Easel Display

Easy-to-understand text combined with six handpainted, realistic cervix models make teaching the importance of regular PAP tests easy. This 3D display is perfect for one-on-one presentations. Comes with a protective felt cover. Available in English only. 23 x 30 cm

M-1018296



### Why Breast Biopsies Can Save Your Life Easel Display

Emphasising the importance of breast biopsies, the cutaway view on this 3D handpainted display reveals chronic cystic mastitis, a benign tumour, and a cancerous growth. Comes with protective felt cover. Available in English only. 23 x 30 cm

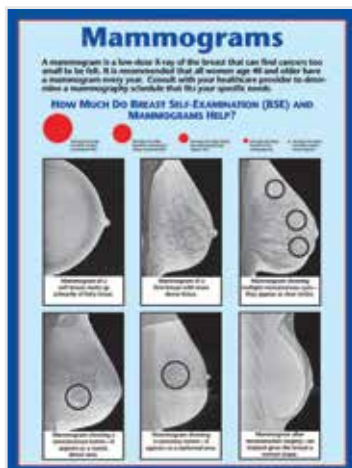
M-1018297



### How to Perform Breast Self Examination (BSE) Chart

This chart explains basic procedures for vertical/grid, circular, and wedge patterns and includes recommendations on when and where to perform BSE. Also lists possible warning signs of breast cancer. An excellent teaching resource. Laminated. Available in English only. 45,7 x 61 cm

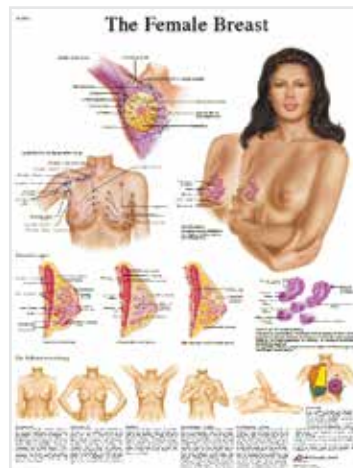
M-1018312



### Mammograms Chart

A mammogram is a low-dose breast X-ray that can find cancers too small to be felt. This chart offers viewers a chance to see the benefits of BSE and mammography up close. Shows lump sizes found by mammography and BSE. Laminated. Available in English only. 45,7 x 61 cm

M-1018346



### Female Breast Chart - Anatomy, Pathology and Self-Examination

This colourful chart covers the anatomy, pathology, and self-examination of the human female breast. The anatomy of breast pathology is shown along with useful information about different types of breast lumps that can occur. 50 x 67 cm

Laminated Paper M-1001576 M-400705



### Breast Care Flip Chart

Explaining the facts about breast cancer, this flip chart is perfect for women's health education. Teaches the importance of combining BSE, mammography, and annual clinical exams as the best defense against breast cancer. Features presenter's notes on reverse panels. Available in English only. 6 panels. 30,5 x 43 cm

M-1018313



### Family Planning Educator

Desktop simulator for training and demonstration of proper introduction and removal of a diaphragm, IUD or sponge contraception devices. This trainer demonstrates both normal and abnormal uterine positions and is ideal for training Bi-manual examination techniques. 25,4 x 25,4 x 25,4 cm; 2,3 kg

#### The family planning educator supplied with:

- One anteverted uterus with clear upper half to illustrate correct position of IUD
- One uterus to illustrate normal anteversion and retroversion
- Cervix with patent os attaches to uterus suspended within pelvic cavity
- Soft plastic stomach cover
- Carrying bag

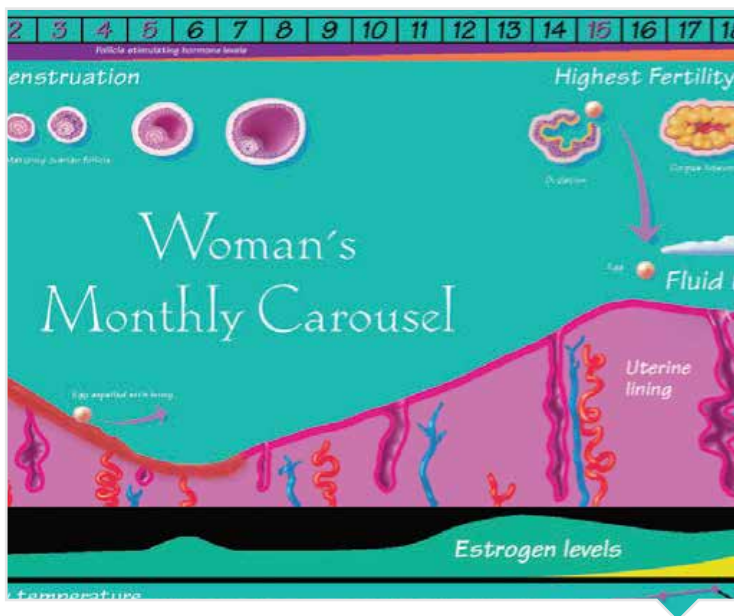
M-1005784



### I.U.D Trainer

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 visualisation of insertion and placement of I.U.D. I.U.D. not included. 6 x 40 x 45 cm

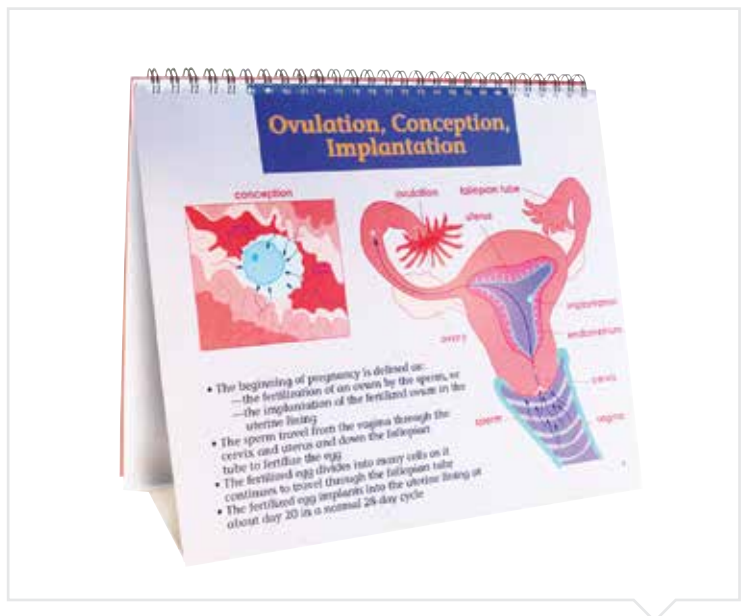
M-1005766



### Woman's Monthly Carousel Chart

Ideal visual aid for a complex process, this chart explains a 28-day menstrual cycle. Discusses function of hormones, changes in the uterine lining, the development and release of the ovum, body temperature, and more. Available in English only. 83,8 x 40,6 cm

M-1018345



### Understanding Birth Control

A great tool for healthcare providers or educators, this flip chart discusses male and female reproductive anatomy, menstruation, conception, and the most current methods of contraception. Provides student information on one side and a teaching script on the other. 21 panels. Available in English only. 35,5 x 30,5 cm

M-1018279

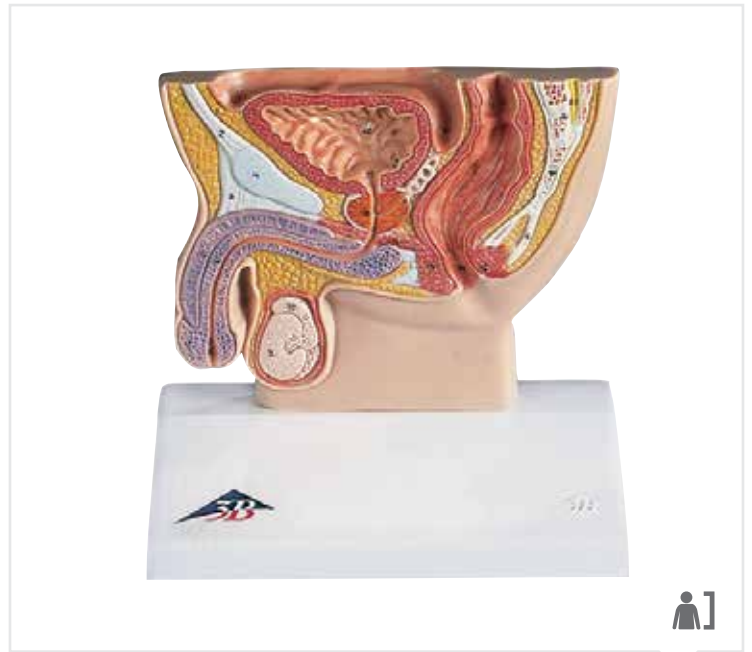
▶ Need more information? Visit us at [3bscientific.com!](http://3bscientific.com!) ◀



**Testicle Self Exam Simulator**

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 life-like feeling of the skin, baby powder (included) should be applied from time to time. 23,5 x 16 x 6,5 cm; 0,475 kg

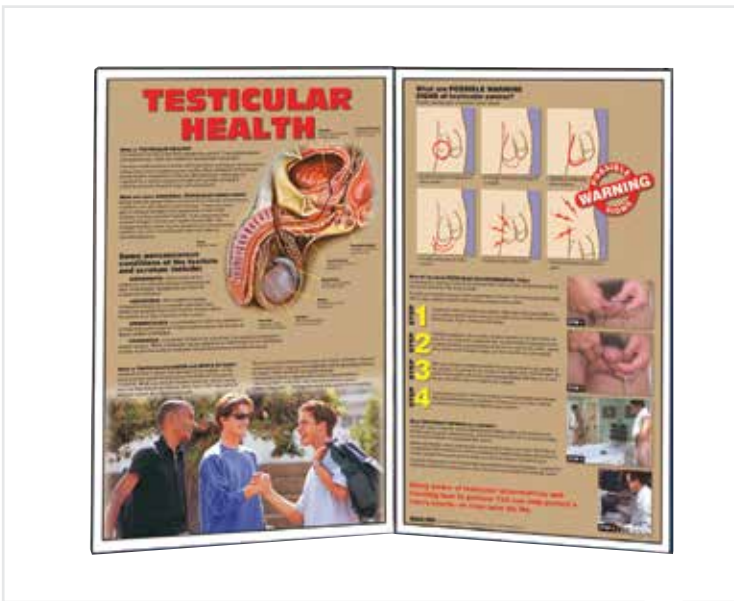
M-1005640



**Male Pelvis Section, 1/2 Life-Size**

This cross section of the male genital organs shows all structures in detail. It is a realistic replica of the anatomy of the male pelvis. 13,5 x 10 x 14 cm; 0,24 kg

M-1000283



**Testicular Health Tabletop Display**

Offering detailed information in an easy-to-follow format, this two-panel display is ideal for teaching young men about a variety of testicular conditions. Covers noncancerous conditions, possible warning signs of testicular cancer, and instructions for self-examination. Available in English only. 30,5 x 43 cm

M-1018412



**Facts About Testicular and Prostate Cancer Display**

This folding display explores testicular and prostate cancer by identifying the risk factors, symptoms, and treatment of each condition. Emphasises the importance of testicular self-examination and prostate cancer screening. Available in English only.

M-1018413

▶ More displays available online at [3bscientific.com](http://3bscientific.com)! ◀





► **Bestseller**

**Testicle Self Exam**

By using 3B Scientific® SKINlike™ high-quality silicone, learning and practising self-examinations of the testicles becomes even more realistic. The scrotum contains two movable testicles, the epididymi, and the spermatic cords for palpation. Two pathological findings can be felt in the left testicle. Supplied with detailed instructions for self-examination and a carrying bag. 9 x 8 x 4 cm; 0,19 kg

M-1000346

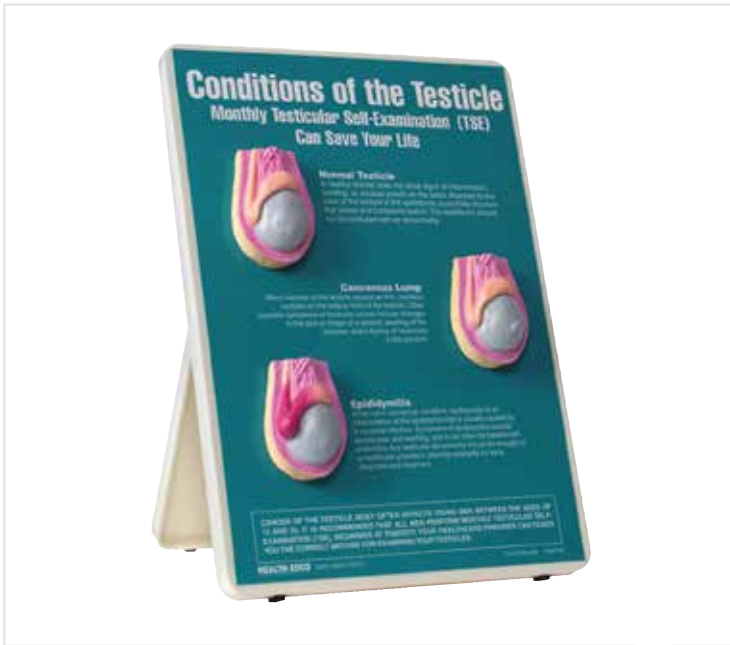


**Teen BSE/TSE Training Set**

This kit contains a teen BSE model and a TSE model to teach teens the importance of the early detection of cancer. Teen BSE model contains lumps in a variety of sizes. TSE model contains two lumps in each testicle. Each model is made of soft, durable BIOlike™ synthetic tissue and comes with slipcover and carrying case. 26 x 22,8 x 18,8 cm

Beige Skintone M-1017933

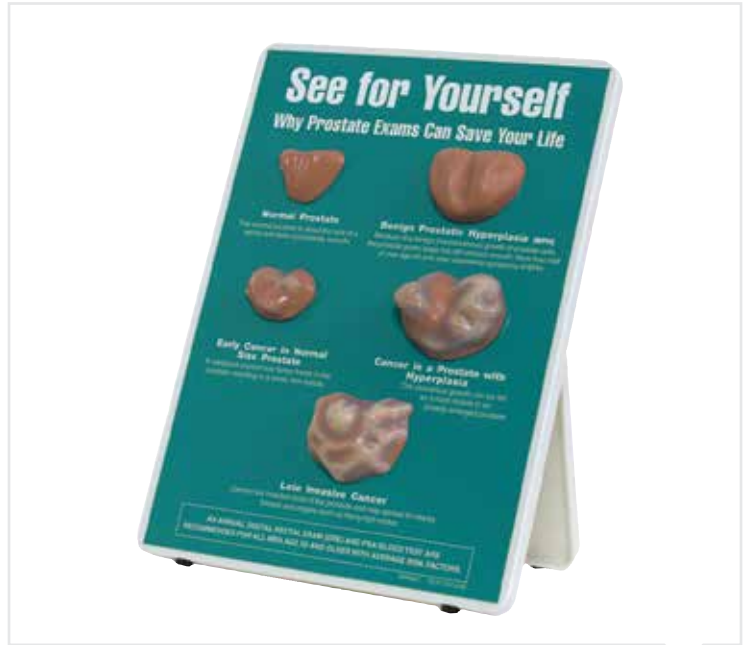
Brown Skintone M-1017934



**Conditions of the Testicle Easel Display**

Emphasising the importance of monthly testicular self-examination, this 3D, handpainted easel display depicts the anatomy of a normal testicle, a testicle with a cancerous lump, and a testicle with an inflamed epididymis. A useful reminder that although not all testicular abnormalities are cancerous, only a healthcare professional can make an accurate diagnosis. Comes with protective felt cover. Available in English only. 22,8 x 30,5 cm

M-1018293



**Why Prostate Exams Can Save Your Life Easel Display**

Handpainted to simulate the appearance of actual tissue, these five 3D prostate models represent a normal prostate, benign prostatic hyperplasia, early cancer, cancer in a hyperplastic prostate, and late invasive cancer. Graphically emphasises the need for regular prostate exams. Comes with protective felt cover. Available in English only. 22,8 x 30,5 cm

M-1018294

► More displays available online at **3bscientific.com!** ◀



### Condom Training Kit

Use this model to quickly teach how to use a condom safely. The anatomical structures and its firmness are realistic, so that training to put on and remove a condom happens in a realistic way. Supplied with 12 lubricated training condoms and a carrying bag.

7,5 x 7,5 x 19,5 cm; 0,35 kg

Light skin tone M-1000340

Dark skin tone M-1000341



### Condom Training Model

Demonstrate the proper use of condoms by using this realistic model. Includes 12 condoms, syringe, and artificial semen to simulate ejaculation. Mounted on a stand with suction cups and delivered with carrying bag. 35,5 x 15 x 16,5 cm; 2,3 kg

M-1005560

#### Optional Equipment

UV-Fluorescent Artificial Semen M-1005561



### Condom Training Set

This economy set has 20 styrofoam penis models and provides a means of practising the correct use of condoms, even in large groups. The reusable models can be fixed to the desktop with adhesive tape. Delivered without condoms. 14,5 cm

M-1005115



### Female Condom Model

This model shows the labia and vagina up to the cervix and is designed to demonstrate and teach the insertion of a female condom. Condoms not included. 12 cm

Dark skin tone M-1000338

Light skin tone M-1000339



### Female Pelvis Contraceptive Model

This model, made from soft BIOlike™ material, provides a cross-section of a female pelvis for demonstrating proper contraceptive insertion. The side cutout lets viewers see and understand contraceptive placement and removal. Contraceptives not included. 15 x 7,8 x 8,9 cm

M-1017935



### Contraceptive Pratisse

Represents an anteverted uterus in a simulated pelvic cavity with soft vulva and vagina and a soft plastic stomach cover. A perfect tool to demonstrate the use of a female condom, contraceptive sponge and cervical cap. Supplied with carrying bag. 17,8 x 24 x 14 cm

M-1005826



### AIDS Virus

This model has been enlarged millions of times to show the outer lipid membrane with protein structures and the internal nucleus which contains the viral hereditary matter (RNA). Remove the nucleus and you'll find space to place a targeted message regarding measures to take in protecting against HIV. Mounted on base. 18 x 13 x 13 cm; 0,7 kg

M-1000336



### The Consequences of STDs 3D Display

This 3D display shows how organs and body parts can be affected by sexually transmitted diseases. The durable carrying case and easy set-up make this display ideal for clinics and sex education programs. Available in English only. 71 x 69 cm opened.

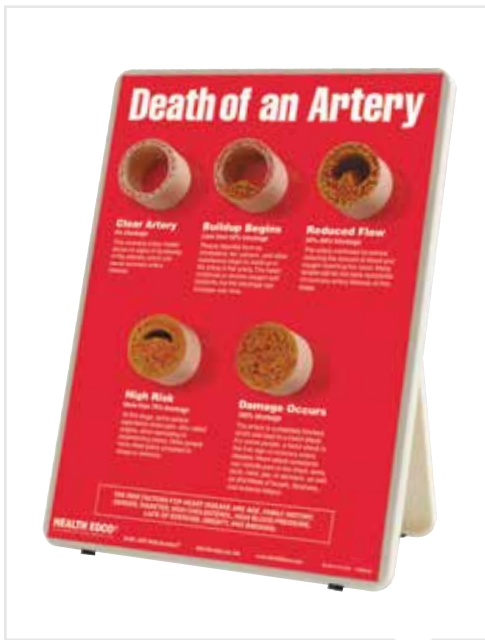
M-1018280



### The Consequences of HIV/AIDS 3D Display

This 3D display helps viewers to understand what HIV/AIDS can do to the body. Contained within a convenient carrying case for storage or transport. Available in English only. 71 x 69 cm opened.

M-1018281



**Death of An Artery Easel Display**

These handpainted, cross-sectional, 3D models of arteries show patients and students the various stages of plaque build up. The interior size of each vessel diminishes, making it easy to explain a process that can eventually result in death. Comes with protective felt cover. Available in English only. 22,8 x 30,5 cm

M-1018290



**Why Blood Pressure Checks Can Save Your Life**

Patients and students learn the importance of blood pressure checks when they see these handpainted, 3D models of arteries and this cross section of the brain. Demonstrates the way high blood pressure can silently lead to heart attacks or strokes. Comes with protective felt cover. Available in English only. 22,8 x 30,5 cm

M-1018289



**Blood Cholesterol & Triglycerides Packet**

The need for a healthy diet is emphasised by the four blood viscosity samples in this pack. The samples show the exaggerated differences seen when analysing blood serum for lipid and glucose concentrations.

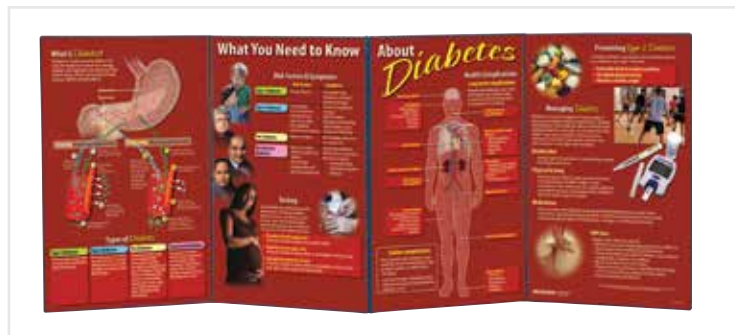
M-1018315



**Preventing Cardiovascular Disease Folding Display**

With practical information and vivid illustrations, this display explains cardiovascular disease and identifies risk factors, including those that can be controlled through lifestyle changes and medication. Available in English only. 147 x 57 cm opened.

M-1018305



**What You Need to Know About Diabetes Folding Display**

With information about risk factors, symptoms, and complications of diabetes, this folding display is a valuable resource for health educators. Explains the different types of diabetes and describes how the disease can be treated. Available in English only. 147 x 57 cm opened.

M-1018308



**Consequences of High Blood Pressure Display**

Life-size, three-dimensional, hand-painted models illustrate the various organs that can be affected by high blood pressure. Great for health fairs and health-education promotions. Contained in a convenient, sturdy wooden carrying case. Available in English only. 71 x 68,5 cm opened.

M-1018277



**Consequences of an Inactive Lifestyle Display**

This 3D display graphically shows many of the negative health consequences of an inactive lifestyle. Each permanently mounted, handpainted model has a brief description of the consequences it represents. Display is contained within its own sturdy carrying case. Available in English only. 71 x 68,5 cm opened.

M-1018300





**Occluded Artery Model**

The potentially deadly effects of high cholesterol are demonstrated with this persuasive model. The tube represents an artery constricted by plaque, which forms on artery walls when there is excess cholesterol in the blood. When the model is turned over, the blood in the artery slows or stops completely. 7 x 17,5 cm

M-1018304



**Cholesterol Flip Chart**

Many people do not know what steps they can take to maintain healthy cholesterol levels. This flip chart explains the facts about "good" and "bad" cholesterol and the health risks associated with high cholesterol levels. Features presenter's notes on reverse panels. Flip chart is 6 panels. Available in English only. 30,5 x 43 cm

M-1018306



**Healthy Eating Out Flip Chart**

By outlining ways to make healthy choices from restaurant menus, this flip chart helps to solve the "eating-out dilemma." Each explains how different food preparation methods affect nutritional value. Flip chart features presenter's notes on reverse panels. Flip chart is 6 panels. Available in English only. 30,5 x 43 cm

M-1018408



**Exercise Facts Folding Display**

A combination of colourful art and clear explanations about the advantages of aerobic exercise and strength training make this folding display an ideal teaching tool. Also included are ways to work exercise into daily life, a discussion of exercise benefits for all ages, and information on exercise safety. Available in English only. 147 x 57 cm opened.

M-1018299



**Benefits of Healthy Eating 3D Display**

The handpainted, 3D models mounted on this display's unique swiveling panels contrast the benefits of a healthy diet with the consequences of an unhealthy diet. Contrasts include a healthy artery and a clogged artery, healthy teeth and tooth decay, energy and fatigue, and healthy bones and osteoporosis. Can be used as a tabletop display or mounted on a wall. Available in English only. 67,3 x 33 x 13,3 cm

M-1018409



**Arteriosclerosis Model, with Cross Section of Artery**

Changes in the blood vessels due to arteriosclerosis can be quickly and easily explained with this model. A horizontally dissected artery fork is depicted with arteriosclerotic changes in four different stages, from slightly sedimented to a completely clogged vessel. Mounted on base. 15,2 cm; 0,2 kg

M-1000278



**Vat of Fat**

Explaining how calorie intake translates into weight gain is simplified with this graphic and informative display. The plastic jar contains approx. 1 lb (453,59 g). of goopy simulated fat, which represents the amount of weight a person could gain in one week by consuming an extra 500 calories each day. Information on the back of the jar shows how much weight a person could gain in one year as a result of excess calories. 12,7 x 16,5 cm

M-1018309



### Diabetic Injection Pratique Kit

Made from realistic BIOlike™ material, these teaching models facilitate technique practise 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 practise. Both can be punctured repeatedly. Replacement skin for the skin model and replacement finger are available. Comes with powder and carrying case.

Skin model is 15,2 x 11,4 x 3,8 cm, and finger stick model is 2,5 x 11,4 x 2,5 cm.

Beige M-1018139  
Brown M-1018140



### A. Diabetic Foot Model

This life-size diabetic foot model can be used for both patient education and student training. Made from life-like BIOlike™ material, the model contains three ulcers in various stages of development as well as the features commonly associated with diabetes. A graphic reminder of the importance of proper foot care. Comes with carrying case and instruction card. 8,9 x 24 x 10 cm

M-1017936

### B. Severe Diabetic Foot Model

This life-size, BIOlike™ replica complements the original Diabetic Foot Model by showing additional, more severe consequences of diabetes, including an amputated toe, Charcot foot deformity, and severe infection and gangrene. Comes with a carrying case and instruction card. 9,5 x 22,8 x 11,4 cm

M-1017937

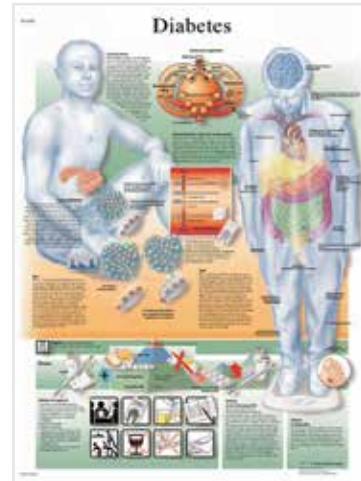


### Injection Belly

This soft stomach replica will be an invaluable tool for teaching patients how to properly insert and rotate the infusion set for insulin pumps, as well as giving self-injections. The trainer has life-like skin with what feels like real stomach tissue underneath. There is a soft plastic backing to keep needles from going through and holes to allow the material to breathe and dry, should you choose to inject water. Actual insulin or other medications should not be used, as they may deteriorate the material.

The injection belly is considered disposable; however, with proper care and treatment it will serve its purpose for a long period of time. Using the smallest needles possible when simulating injections and rotating the insertion points will help prolong the life of the trainer.

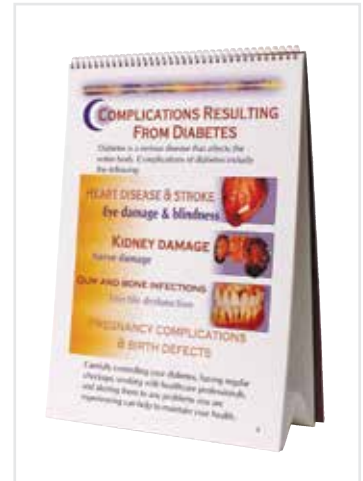
M-1013056



### Diabetes Mellitus Chart

This anatomical chart details the disease diabetes, its causes and effects as well as treatments for disease. A great diabetes teaching tool for a classroom or doctors office. Laminated and printed on premium glossy 200 g/m<sup>2</sup> paper. 50,8 x 66 cm

Laminated M-1001522  
Paper M-4006694

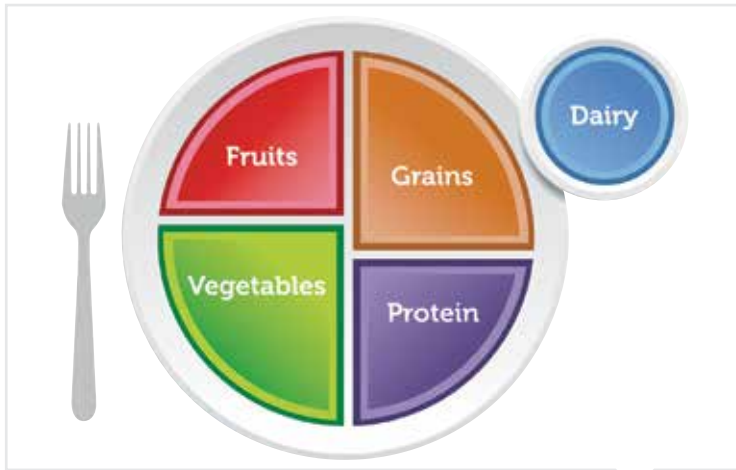


### Diabetes Flip Chart

This flip chart explains type 1, type 2, and gestational diabetes as well as the risk factors and warning signs of each one. Information on pre-diabetes, testing, complications resulting from diabetes, and managing diabetes is also included. Features presenter's notes on reverse panels. Flip Chart is 6 panels. Available in English only. 30,4 x 43 cm

M-1018307





**MyPlate**

A durable plastic plate featuring the new USDA graphic to help us all fill half of our plate with fruits and vegetables, a whole grain, and a low fat protein, as well as adding a low fat dairy choice. Use the plate as an educational tool all by itself, add food replicas to illustrate many different meals on MyPlate, or give one to each student to eat from. Made of FDA approved ABS plastic safe for food use. Dishwasher safe, not recommended for microwave oven. Outside diameter 27,3 cm. Available in English only.

M-1018316



**MyPlate Tear Pads/Place Mats**

The tear pad front shows the MyPlate image with appropriate food choices in each spot on the plate, while the back has simple fill-in-the-blank questions to use as a study guide or reminder for those learning good nutrition. Available in English only. Pad of 50 sheets, each 43 x 28 cm

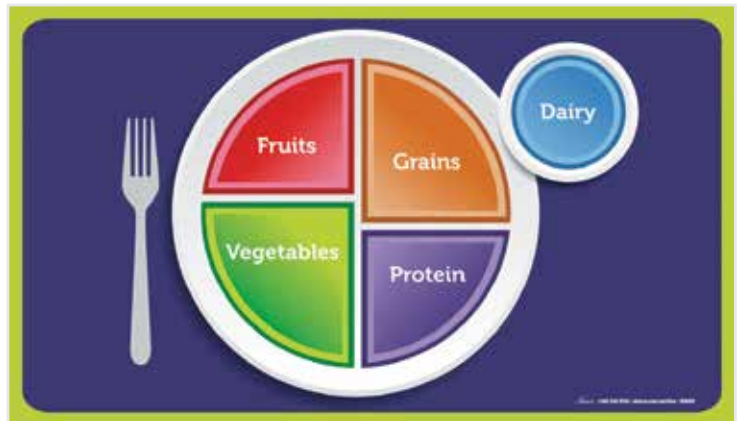
M-1018322



**Complete MyPlate Kit**

This kit combines five plates, the display rack, and the food kit for your complete MyPlate educational teaching kit. The 42-piece food kit includes grains, protein, fruit and vegetables. See online for full product list.

M-1018318



**MyPlate Cling Place Mats**

These plastic place mats, which are also food clings, are an engaging nutrition teaching tool. The place mats feature the USDA MyPlate image for use with teams or individuals. Participants can easily create many suggested meals using the new guidelines. Set of five place mats with easy cling and peel material. Available in English only. 48 x 28 cm

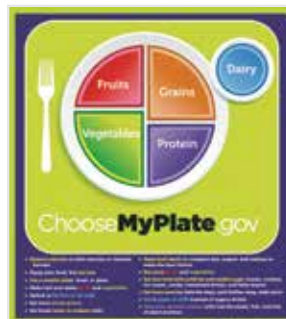
M-1018317



**MyPlate CD-ROM PowerPoint®**

Viewers learn an easy way to eat healthy at every meal and the answer is right on their plate. This CD-ROM includes two versions of slides teaching MyPlate. The express version is shorter and more concise with 30 slides. The full version has 50 slides and goes into more depth. This program includes printable speaker's notes and handouts. Available in English only.

M-1018320



**MyPlate Poster with Key Phrases**

Unique MyPlate poster shows 13 key phrases providing clear messages about what to eat and how using the MyPlate technique will make you healthier. Available in English only. 45,7 x 61 cm. Laminated.

M-1018319



**MyPlate Tear Pad with Food Group Tips**

The tear pad front shows the MyPlate image while the back gives tips for eating wisely in all five food groups. A simple concise tool to use in nutrition education and send home with each participant. Available in English only. Pad of 50 sheets, each 21,6 x 28 cm.

M-1018321



## Simulate Medical Emergencies



### Act+Fast Rescue Choking Vest

The Act+Fast Rescue Choking Vest is an invaluable tool for CPR Instructors to easily and effectively teach students the correct way to perform the Abdominal Thrust ManOeuver (Heimlich) without using a manikin. When performed correctly, a foam plug shoots into the air, making teaching easy and learning fun. The trainer can be used standing, sitting, on the ground or even for choking self-rescue by using a counter or chair. 10 foam plugs included. Additionally, the red trainer features a Back Blow Pad for practising ARC and ERC protocols.

Act+Fast Blue M-1017938  
Act+Fast Red M-1014589



### Overweight Fred Manikin – White

This unique manikin helps to prepare students to respond to a more typical cardiac arrest situation with a victim who is elderly and overweight. The airway can be setup to simulate airway obstruction or choking situations. Also included are three mouth/nose pieces, three disposable lung/airway systems, and a convenient carrying bag.

M-1005685

#### Additional Item Required

Lung/Airway Systems M-1005686  
Mouth/Nose Pieces M-1005687



### A. Sani-Baby CPR Manikin

This economical, baby-size manikin has a disposable, sanitary, single-user lung/airway and face shield system. No cleaning – no disinfecting – no disassembly. Sani-Baby features a realistic face, moulded hair, defined rib cage, and xiphoid process. 66 x 20,3 x 20,3 cm; 1,8 kg

- Realistic chest rise
- Anatomical landmarks such as sternum, ribcage and sub-sternal notch

M-1005745

### B. Infant Choking Manikin

This 9-month-old baby brings to you the challenges associated with foreign body obstruction in the young paediatric age group. By placing the included obstruction in the pharyngeal cavity, you will occlude the throat and initialise the need for protocol manOeuvers to remove the object. When proper hand placement occurs with sufficient force, the object expels from the mouth.

M-1005778



### Pocket CPR

This FDA cleared device reminds the rescuer what to do before initiating CPR and coaches the rescuer with feedback during CPR. Pocket CPR delivers real CPR help in a light, portable device that measures and provides real-time feedback about the rate and depth chest compression during CPR.

M-1018144



**Choking Manikins**

This life-size torso allows practise 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 the obstruction. Made of durable vinyl to create a realistic feel. Supplied with choking objects, shirt and soft carrying bag.

**Features:**

- Anatomical landmarks such as ribcage, xiphoid process and jugular notch

**Obese Mature Choking Manikin**  
M-1005684

**Child Choking Torso**  
Same features as Choking Manikins (above).  
M-1005751

**Adult Choking Torso**  
M-1005724

**Adolescent Choking Torso**  
Same features as Choking Manikins (above).  
M-1005750



**CPR Manikins**

Economically priced manikins for teaching CPR. The lightweight, rugged, realistic manikin is foam-filled with no internal parts to break. Completely disposable airway system with a non-rebreathing valve

**Newborn Manikin** 66 x 20,3 x 20,3 cm; 2,3 kg  
M-1005728

**Infant Manikin** 66 x 20,3 x 20,3 cm; 2,8 kg  
M-1005731

**Child Manikin** 82 x 24 x 15 cm; 4,1 kg  
M-1005733



**Sani-Child CPR Torso**

This economical CPR torso has a single-use airway/lung/face shield system so you will never have to clean, disinfect, or disassemble it. 40 x 18 x 22 cm

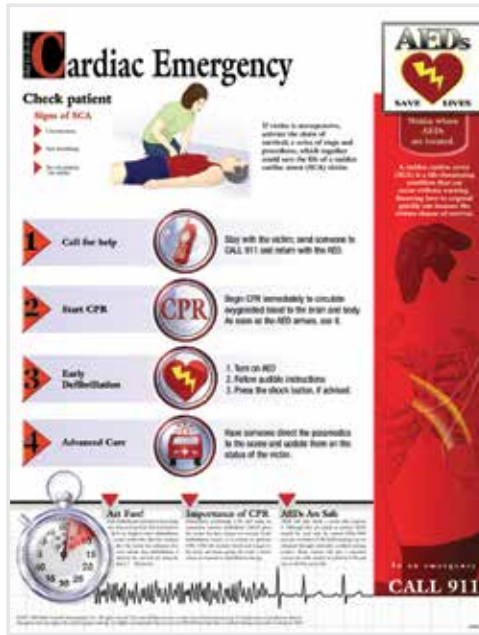
**Features include:**

- Realistic chest rise
- Anatomical landmarks like sternum, ribcage and sub-sternal notch

M-1005752

**Additional Item Required**

100 Airway, Lung, Face Shield M-1005743  
Carrying Bag M-1005744



**Cardiac Emergency**

In a cardiac emergency it is important to quickly implement lifesaving steps to help the victim. This poster reinforces the basic steps to follow in a cardiac emergency. Available in English only. 45,7 x 58,4 cm

M-1018419



**ADSAFE™ Face Shield**

The user friendly design protects the rescuer and helps eliminate hesitation when performing CPR. Semi-transparent face shield allows visualisation of patient's lips, mouth, and nose while protecting rescuer. 20,3 x 30,4 cm when open.

M-1018420

**NEW**



**AED Trainer 2**

The AED Trainer 2 provides a variety of simulations to help responders become familiar with an AED device. This trainer provides simulated shock delivery and has no high-voltage capabilities, ensuring safety during training. It is pre-configured with 10 training scenarios that simulate realistic sudden cardiac arrest episodes. The trainer is designed for use with the AED Little Anne and AED Resusci Anne manikins by giving responses to pad placement on the manikins, but can also be used with any other manikin.

**M-1018143**



**Brad™ Compact CPR Training Torso**

This economical CPR manikin is constructed of soft, vinyl plastic over polyurethane foam for a “human” feel. Includes three mouth/nose pieces, three disposable lung/airway systems, nylon carry bag and kneeling pads. 65 x 38 x 22 cm; 4,8 kg

**Features:**

- Longer torso for realistic abdominal thrusts
- Realistic head tilt and chin lift for opening airway
- Easy to manipulate and realistically simulate airway obstruction or choking situations
- User-friendly lung/airway design eliminates cleaning.

**M-1005753**



**Jaw Thrust Brad**

Jaw Thrust Brad utilises simple moving-parts technology for the instruction of the jaw thrust manoeuvre. Unique to the industry is the function of ventilating the patient when the proper manoeuvre is done without tilting the head. Includes kneeling pads and carry bag. 71,1 x 45,7 x 25,4 cm

**Features:**

- Moveable jaw
- Individual mouth piece
- Sanitary one-way bag allows multiple users while requiring a single replacement at end of day
- Removable chest plate for adolescent and adult CPR
- Rugged vinyl skin & long-lasting foam filling

**M-1013162**



**CPR Manikin with Memory Unit**

This full-size manikin allows the practise of adult CPR techniques. Optionally child CPR can also be practised by changing the supplied springs inside the torso. 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. 91,4 x 53,6 x 33 cm; 31 kg

**M-1005584**

**Replacement Items**

- |                        |                  |
|------------------------|------------------|
| 25 Sanitary Face Masks | <b>M-1005600</b> |
| 10 Tracheal Airways    | <b>M-1005601</b> |
| 10 Lower Airways       | <b>M-1005602</b> |





**Basic Buddy™ Single CPR Manikins**

The one-piece, disposable lung/mouth protection system makes this manikin completely sanitary – there is no risk of cross contamination and no need to sanitise the manikins after use! Rugged carrying bags make transporting the lightweight Basic Buddy™ 5 and 10-Pack convenient (manikins fit into bags fully assembled).

**Basic Buddy™**

1 manikin, 10 lung/mouth protection bags, one insertion tool, and an instruction manual. 129 x 90,4 x 45 cm; 1,81 kg

**M-1005637**

**Basic Buddy™ 5-Pack**

5 manikins, 50 lung/mouth protection bags, 5 lung insertion tools, 1 carrying bag, and an instruction manual. 10 kg

**M-1005636**

**Basic Buddy™ 10-Pack**

10 manikins, 100 lung/mouth protection bags, two carrying bags, ten lung insertion tools, and two instruction manuals. 18 kg

**M-1005635**

**Replacement Items**

|                              |                  |
|------------------------------|------------------|
| 100 ct Lung/Mouth Protection | <b>M-1005638</b> |
| 5 Torso Carrying Bag         | <b>M-1005639</b> |



**CPR Prompt® Training and Pratise Manikin**

Designed to meet American Heart Association criteria for desirable manikin features, these are professional-quality manikins at a fraction of the cost! Comprehensive design allows for practise of Heimlich manoeuver, CPR and mouth-to-mouth breathing. Realistic anatomical markings (Adam's apple, carotid arteries, navel, rib cage, chest notch) make it easy to learn correct hand placement for checking pulse, performing chest compressions, and more.

**Provides valuable student feedback and other important features:**

- Head tilt/chin lift required to open airway
- Proper anatomical landmarks
- Audible compression "clicker" to ensure proper technique

Ideal for group training – allows each student to have their own manikin for maximum practise time. Easy-to-clean heads are dishwasher safe and can easily be sanitised. Lung bags are replaceable. Includes a supply of face-shield lung bags, an insertion tool, assembly instructions. With age selector dial that adjusts chest compression piston for learning adult or child techniques.

**Note:** Only use AED pads designed for foam body manikins.

**Adult/Child Manikin**

**M-1017939**

**Adult/Child Manikin, 5-Pack**

Includes Carrying Case

**M-1017940**

**TPAK 700 CPR Prompt® 7-Pack**

Economy package of seven CPR Prompt® manikins includes five adult/child manikins, two infant manikins, 50 adult/child face shield/lung bags, 20 infant face shield/lung bags and nylon carry case.

**M-1017941**

**Infant Manikin**

**M-1018141**

**Infant Manikin, 5-Pack**

**M-1017942**



**Professional quality at budget prices!**

# 3B Scientific® CPRLillyPRO™



## CPRLillyPRO™

CPRLillyPRO™ - The best choice for your professional CPR training courses. All the relevant parameters can be monitored comfortably and easily via the tablet provided. Trainers and trainees will very quickly attain the chosen training target via the direct feedback feature. The face masks can be changed, and are easy to clean. The software can control the carotid pulse and the eye movements.

CPRLillyPRO™ can react by opening the eyes when spoken to by the trainee. The correct head tilt, individual carotid pulse, and the moveable jaw to use the jaw thrust manoeuvre, provide realistic scenarios. CPR training with the CPRLillyPro™ complies with the latest AHA and ERC guidelines. 78 x 39 x 26 cm; 9 kg

### Displayed training parameters:

- Compression depth
- Compression frequency
- Hand position
- Head tilt
- Respiration volume/speed (combined)
- Respiration pressure

Light Skin M-1017773

Dark Skin M-1017775

## CPRLilly™

CPRLilly™ - reliable for all CPR training courses. The CPRLilly™ is hygienic, and will operate economically for a long time thanks to the use of disposable airbags and the separate air chamber system.

The face masks can be changed, and are easy to clean. The carotid pulse and the eye movements can be controlled separately by hand. When the correct compression depth is reached, a tone will sound. CPRLilly™ can react by opening the eyes when spoken to by the trainee.

The correct head tilt, individual carotid pulse, and the moveable jaw to use the jaw thrust manoeuvre, provide realistic scenarios. CPR training with the CPRLilly™ complies with the latest AHA and ERC guidelines. 78 x 39 x 26 cm; 8 kg

Light Skin M-1017772

Dark Skin M-1017774





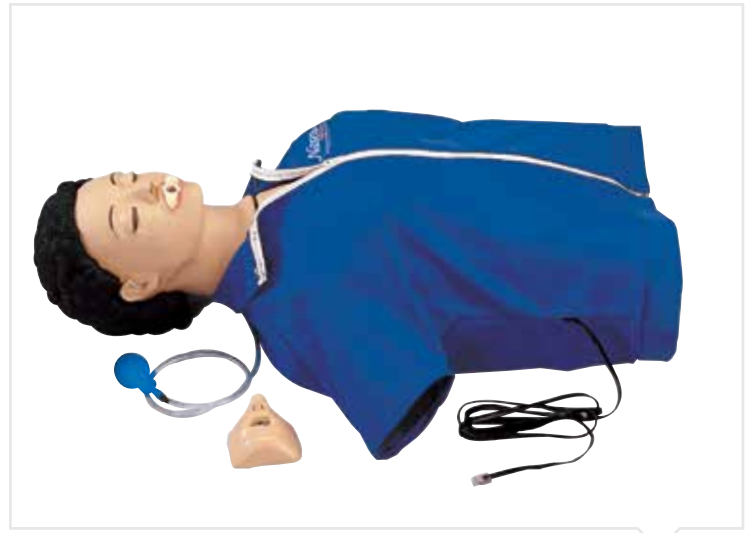
**Adult CPR Torso**

Torso with fully articulating head, neck, and jaw permitting head tilt, chin lift, jaw thrust, and neck extension. Supplied with 10 disposable airways and carrying case.

**Features:**

- Easily accessible chest cavity with ribcage, lungs, and heart for realism and practise of the Heimlich manoeuvre
- Airway block when head is forward
- Realistic chest rise
- Carotid arterial pulse points
- Eyes open and close; one pupil is dilated

**M-1005819**



**CPR Torso with Light Controller**

This easy to transport torso allows the practise of adult CPR techniques. Optionally child CPR can also be practised by changing the supplied springs inside the torso. Individual student face masks with a one-way non-rebreathing valve and disposable airways provide maximum protection against cross-contamination. 48,5 x 30,5 x 80 cm; 17 kg

**Features:**

- 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

**M-1005618**



**CPR Torso**

Lightweight and easy to transport. 70 x 43 x 22 cm; 7 kg

**Features:**

- Airway ball valve which allows the lungs to inflate only if the head is extended and accurately positioned
- Life-like anatomical landmarks such as carotid pulse, sternum, ribcage and sub-sternal notch
- Easy to replace mouth/nose pieces
- Soft carrying case with kneeling pads

**M-1005725**

**Replacement Items**

10 Mouth/Nose Pieces **M-1005741**  
 10 Airway Systems **M-1005742**



**Adult CPR Torso with Light Controller**

Lightweight and easy to transport. 70 cm; 7 kg

**Features:**

- Airway ball valve which allows the lungs to inflate only if the head is extended and accurately positioned
- Life-like anatomical landmarks such as carotid pulse, sternum, ribcage and sub-sternal notch
- Light controller confirms correct hand placement, ventilation volume and compression
- Easy to replace mouth/nose pieces
- Soft carrying case with kneeling pads

**M-1005726**

**Replacement Items**

10 Mouth/Nose Pieces **M-1005741**  
 10 Airway Systems **M-1005742**



**Adult CPR Manikin with Light Controller**

This full-size manikin allows the training of BLS rescue techniques and CPR. The resiliency and weight of the body is very realistic. 165 cm; 17,5 kg

**Features:**

- Natural resistance to chest compression
- Palpable carotid pulse
- Anatomical landmarks such as sternum, ribcage and sub-sternal notch
- Airway ball valve which allows the lungs to inflate only if the head is extended and accurately positioned
- Light controller which confirms correct hand placement, ventilation volume and compression depth

**M-1005738**

**Replacement Items**

10 Mouth/Nose Pieces **M-1005741**  
 10 Adult Airway Systems **M-1005747**



# 3B Scientific® BASICBilly™

NEW



## Basic Life Support BASICBilly™

BASICBilly™ CPR Manikin emerged by using the extensive results of studies focusing on the depth and force of compression during cardiopulmonary resuscitation (CPR). The BASICBilly™ CPR Manikin fulfills the latest guidelines from the AHA (American Heart Association) and ERC (European Resuscitation Council) on CPR and was designed with optimal force and compression values in mind.

With cardiac failure as one of the leading causes of death, let Basic Billy show that it is not difficult to provide help and save lives through correct cardiac massage and ventilation technique. BASICBilly™ is both anatomically correct and hygienic to use. The head is easy to tilt in order to open the airways for mouth-to-mouth and mouth-to-nose resuscitation. Additionally, the thorax raises as the lungs are ventilated. Mask ventilation is also possible and BASICBilly™ comes with 50 lung bags and 2 additional face masks for hygienic reasons. Low priced disposable airways and a convenient carrying case ensure hygienic and easy care of the manikin.

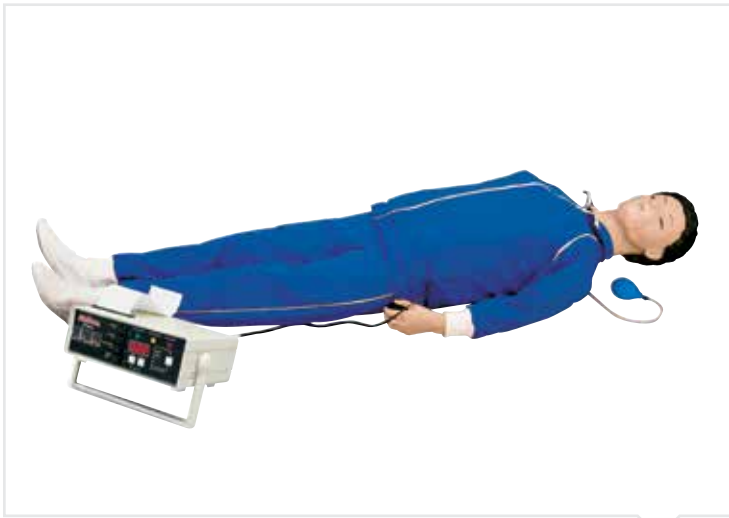
Even better, BASICBilly™ is actually two manikins in one as it can be used as either an adult or a child (of approximate age of 12). Just use the easy and interchangeable springs located in the back of the trainer to give the realistic depth feedback of either the adult (5 cm) or child (4,5 cm). Developed and manufactured in Germany. 60,5 x 35,5 x 19 cm; 2,36 kg

## Includes:

- 1 BLS simulator (torso) with spring for cardiac massage of adults
- 1 additional spring for cardiac massage of children (approximate age of 12)
- 5 lung bags, adult
- 5 lung bags, child
- 1 additional face mask and inner head for hygienic artificial respiration
- Disinfectant solution

Light Skin M-1012793  
Dark Skin M-1017679

▶ For more information visit us at [3bscientific.com](http://3bscientific.com)! ◀



### Adult CPR Manikin with Printer

This full-size manikin allows the practise of adult CPR techniques. The printer unit allows CPR evaluation. The performance of each skill is displayed separately while averages are stored in the memory. Compression and ventilation waveforms are plotted in a time sequence. Averages are shown on the display and printed on paper. (4 pens, 3 rolls of paper and 6 "D" batteries are included). 91,5 x 53,5 x 33 cm; 31 kg

#### Features:

- Palpable anatomical landmarks (xiphoid, navel, nipples and rib cage)
- Enhanced student motivation through use of the optional SkillGuide indicator that allows real-time CPR performance feedback during training
- Adult CPR training with optional child springs
- Fully articulated head, neck and jaw
- Palpable carotid pulse

M-1005617



NEW

### ECG Training Vest

The new ECG Training Vest offers an inexpensive way to communicate with a live patient while monitoring. Since the volunteer wears this vest there is no need to use a high fidelity simulator.

The vest is manufactured from a flesh coloured fabric with four-lead monitoring capability. The vest can be hooked up to the ECG Simulator. The patient has access to the rhythm control buttons to allow them to select the next rhythm to be practised. The ECG Training Vest includes the interactive ECG Simulator. The vest contains no electrical energy and is not for defibrillation practise. 30,5 x 30,5 x 22,9 cm; 2,25 kg

M-1017249

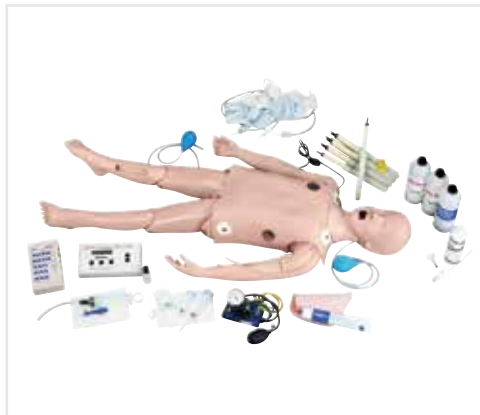


### Deluxe "PLUS" CRiSis™ Manikin

This full body manikin offers a wide range of ACLS training possibilities including arrhythmia recognition and confirmable defibrillation. The manikin is supplied with a storage case.

The interactive ECG Simulator unit allows defibrillator and pacer training directly on the manikin. (A training without a manikin is also possible). Various ECG rhythms can be generated and displayed on an ECG-monitor (not included) for diagnostic and defibrillation training. All arrhythmias can be displayed in adult or paediatric mode so that a total of 34 rhythms are available. 119 cm; 25,15 kg

M-1005649



### Deluxe Child CRiSis™ Manikin with ECG Simulator

This full body manikin of a 5-year old child offers a wide range of ACLS training including CPR, airway management, blood pressure measurement, I.V. injection, intraosseous infusion and more!

The interactive ECG Simulator unit allows defibrillator and pacer training directly on the manikin. (A training without a manikin is also possible). Various ECG rhythms can be generated and displayed on an ECG-monitor (not included) for diagnostic and defibrillation training. All arrhythmias can be displayed in adult or paediatric mode so that a total of 34 rhythms are available. 119 cm; 9 kg

M-1005624

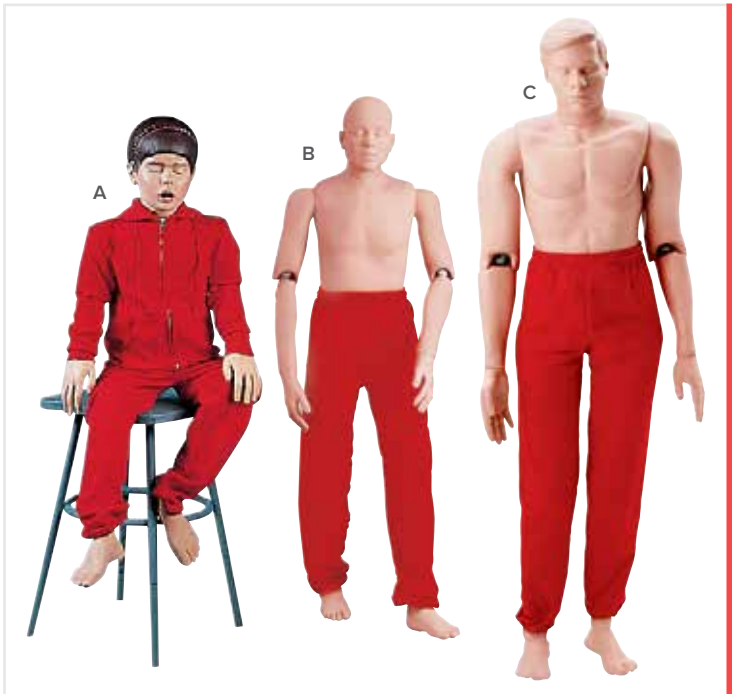


### Deluxe CRiSis™ Torso Manikin

This easy to transport torso allows training of ACLS procedures including CPR, airway management and oesophagus and more!

The interactive ECG Simulator unit allows defibrillator and pacer training directly on the manikin. This external unit allows defibrillator and pacer training directly on the manikin. (A training without a manikin is also possible). Various ECG rhythms can be generated and displayed on an ECG-monitor (not included) for diagnostic and defibrillation training. All arrhythmias can be displayed in adult or paediatric mode so that a total of 34 rhythms are available.

M-1005650



## Rescue Manikins

Developed for life-like adult or juvenile patient handling, transportation, and extrication training. These manikins can be safely used in situations too hazardous or uncomfortable for human volunteers. Made of tough cast vinyl with zinc-plated steel frame for longevity and rugged use. They are fully articulated for positioning in widely diversified training environments. The manikins can be seated in an automobile, positioned in a smoke-filled room for fire rescue training, and immobilised on a stretcher for mountain rescue instruction. They are also useful for simulating the removal of victims from utility poles, conduits, mine cave-ins, and tunnels as well as in limitless other training procedures. Perfect to use with the Casualty Simulation Kits. Available in a variety of heights and weights with a new mixture of vinyl beads and foam to duplicate the weight and resiliency of a human body. Shipped in sweat pants. The Rescue Randy manikins are not fire resistant and are not for water rescue (unless specifically stated). Extra shipping charges may apply.

|  |  |
|--|--|
| <b>A. Rescue Manikin, 121 cm</b><br>7,25 kg                          | <b>M-1005704</b>   |
| <b>B. Rescue Manikin, 167 cm</b><br>25 kg<br>48 kg<br>66 kg<br>75 kg | <b>M-1005700</b><br><b>M-1005701</b><br><b>M-1005702</b><br><b>M-1005703</b> |
| <b>C. Rescue Manikin, 182 cm</b><br>66 kg<br>75 kg                   | <b>M-1005768</b><br><b>M-1005769</b>   |
| <b>Replacement Parts</b><br>182 cm Carrying Bag                      | <b>M-1005770</b>   |



### CPR Water Rescue Manikins

Perfect for Coast Guards, Lifeguard Trainers, and Emergency Personnel to train water rescue and retrieval as well as CPR. The manikins have articulated joints and are made of durable plastic and rust-resistant steel. When filled with water the manikins will submerge to the neck, if an additional 2,2 kg or 4,5 kg (a brick will do) is added, they will sink completely.

**Adolescent, 122 cm; 10 kg**  
**M-1018325**

**Adult, 165 cm; 13 kg**  
**M-1005767**

#### Replacement Parts

**Adolescent, 122 cm; 9 kg**  
24 Airway Systems  
10 Mouth/Nose Pieces

**M-1005735**  
**M-1018326**

**Adult, 165 cm; 13 kg**  
24 Airway Systems  
10 Mouth/Nose Pieces

**M-1005765**  
**M-1005741**



### Water Rescue Manikin

These manikins allow Coast Guards, Lifeguard Trainers, and Emergency Personnel to train water rescue and retrieval. When filled with water the manikins will sink to the bottom.

**D. Child Water Rescue Manikin**  
3 years old. Filled with water manikin.  
**M-1005739**

**E. Infant Water Rescue Manikin**  
6 - 9 month. Filled with water manikin.  
**M-1018327**

**F. Newborn Water Rescue Manikin**  
Filled with water manikin.  
**M-1005699**

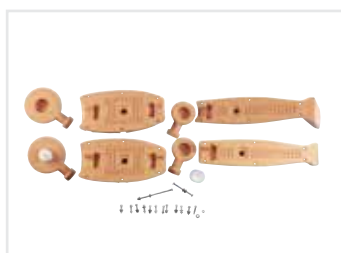




#### Bariatric Rescue Suit

It has become evident that standard patient handling techniques are no longer 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 litre 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 25,4 x 17,8 x 12,7 cm bald manikins. Suit is for manikin use only.

M-1017943



#### Flexible Rescue Randy

Developed especially for the aerospace industry and wing tank fuel cell rescue training, this regular sized Rescue Randy unit can be utilised in any confined space rescue scenario. It exceeds the flexibility of the regular Rescue Randy products because both the waist and the head flex and twist to allow positioning the manikin under dashboards, in tight spots, and under things where the Regular Randy's will not go.

M-1017944



#### Weighted Vests

Optimise training by adding a weighted vest to rescue manikins. It's a quick and easy way to increase the complexity of training situations.

- 9 kg M-1005705
- 13,5 kg M-1005706
- 18 kg M-1005707

#### Hollow limbs can be filled with water or sand!

##### Rescue Randy 9000

This brand new manikin is designed to be customised by the user for optimal training use. The manikin is made from rugged polyethylene parts 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-moulded construction ensures constant size from one manikin to the next and allows the utilisation 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 immobilisation. 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. 71 x 63,5 x 48,2 cm

M-1017945

▶ For more information visit us at [3bscientific.com!](http://3bscientific.com!) ◀



### Basic Casualty Simulation Kit I

The most economical way to get started in simulated injuries. Re-useable wounds and refillable accessories let you practise bandaging and splinting techniques repeatedly. 33 x 25,5 x 13 cm; 2,3 kg

#### Includes:

Bleeding wounds (complete with reservoir bags with pump assembly):

- 1 Compound fracture tibia

Non-bleeding wounds:

- 12 Assorted stick-on lacerations and open fractures

#### Make-Up Accessories:

- 1 Atomiser mist sprayer
- 1 Bottle coagulant make-up blood
- 1 Pkg. blood powder for 4,5 litre simulated blood
- 1 Casualty simulation wax
- 1 Pkg. broken Plexiglas® for simulating glass embedded wounds
- 4 Grease paint colours: white, blue, brown and red
- 1 Pkg. methyl cellulose for blood thickening
- 1 Body adhesive for stick-on wounds
- 3 Spatulas
- 3 Tongue depressors

M-1005708



### Multiple Casualty Simulation Kit II

Complex wounds for testing higher levels of skill in bandaging and patient care while keeping initial expenditures low. 25,5 x 23 x 46 cm; 4,1 kg

#### Includes:

Bleeding wounds (complete with reservoir bags with pump assembly):

- Open amputation, compound fracture of humerus, and compound fracture of tibia
- Sucking wound of chest, gunshot wound of palm

Non-bleeding wounds:

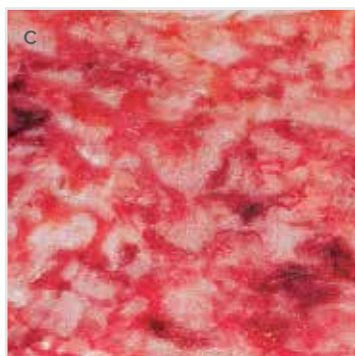
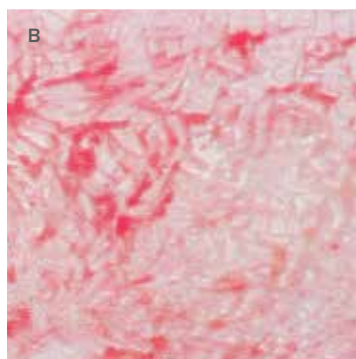
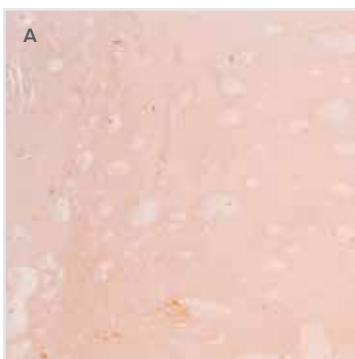
- 24 Assorted stick-on lacerations and open fractures

#### Make-Up Accessories:

- Coagulant make-up blood
- Methyl cellulose for blood thickening, blood powder for 3 batches of 4,5 litres of simulated blood
- Body adhesive for stick-on wounds, casualty simulation wax
- Broken Plexiglas® for simulating glass embedded wound, colours: white, blue, brown and red
- Mist sprayer, spatulas, tongue depressors

M-1005709

▶ Replacement supplies available at [3bscientific.com](http://3bscientific.com) ◀



### Simulated Burns, Set of Four

Use assessment findings to identify the burn severity and type to prepare a treatment plan and to measure performance of burn management. The burns are pliable and can easily be cut into any shape to fit any area on a human patient or patient simulator/trainer. Pieces are reusable and come ready to wear. Theatrical makeup and simulated blood may be applied to add colour for realism. Includes four 17,8 x 25,4 cm rolls listed below. Items also sold separately.

M-1018421

- |                           |           |
|---------------------------|-----------|
| A. 1st degree             | M-1018422 |
| B. 2nd degree superficial | M-1018423 |
| C. 2nd degree deep        | M-1018424 |
| D. 3rd degree             | M-1018425 |





### Advanced Casualty Simulation Kit III

Especially suitable for use in the creation of disaster scenarios where application of makeup on multiple casualties creates the widest range of wounds. Contains specialty wounds associated with gunshots, like perforations, major avulsions, and complex jaw wounds. 41 x 33 x 56 cm; 12,3 kg

#### Includes:

Bleeding wounds (complete with reservoir bags with pump assembly):

- Compound fractures of humerus and tibia

Non-bleeding wounds:

- Assorted stick-on lacerations and open fractures

#### Make-Up Accessories:

- Make-up palette with scissors, mirror, measuring cup, mist sprayer
- Casualty simulation wax, coagulant make-up blood powder for making 3 batches of 4,5 litre simulated blood
- Broken Plexiglas® for simulating glass imbedded wound, fake dirt
- Make-up liners: red, blue, brown, white, yellow, black and flesh
- Plastalene modeling paste: white and dark, glycerine for simulating perspiration, cold cream, mineral oil, charcoal
- Latex compound to simulate scars, petroleum jelly, pressure sensitive tape
- Methyl cellulose for simulated blood thickening
- Body adhesive for stick-on wounds, spatulas, tongue depressors, applicators/swab sticks, cotton balls, cotton, tissues, and make-up sponges.

M-1005710



### E.M.T. Casualty Simulation Kit IV

This complex EMT kit uses components applied to human and manikin patients for the widest variety of training situations possible. Wounds can be strapped on, stuck on, created from wax, and made to bleed to 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. 61 x 23 x 46 cm; 14,6 kg

#### Includes:

Bleeding wounds (complete with reservoir bags with pump assembly):

- Jaw wound, abdominal wound with protruding intestines, sucking wound of chest, compound fractures of humerus, femur, and tibia, laceration of the forehead, open amputation, gunshot wound of palm

Non-bleeding wounds:

- Assorted stick-on lacerations and open fracture wounds
- Phosphorous burn of the hand, face in shock
- 2nd & 3rd degree burn of the face, chest, back, hand, and forearm

M-1005711



### Neonatal Wound Kit

These wounds represent the major complications associated with critical neonates. Development of each wound coincides with the S.T.A.B.L.E. program, which consists of sugar, temperature, airway, blood pressure, lab work, and emotional support. 33,5 x 22,8 x 15,2 cm; 2,7 kg

M-1017261



### Moulage Movie, DVD

Moulage instruction is hard to find, unless you look at this Moulage Movie. Produced in conjunction with a leading artist using Hollywood-training techniques and years of military experience, the Moulage Movie explains the use and application of every portion of the Casualty Simulation Kits. Start simple and go for the realism; each segment of moulage is represented within the frames you'll see during this 45-minute presentation. Use it as a base to build your repertoire of the most realistic moulage to add challenge to your next casualty incident.

M-1018145

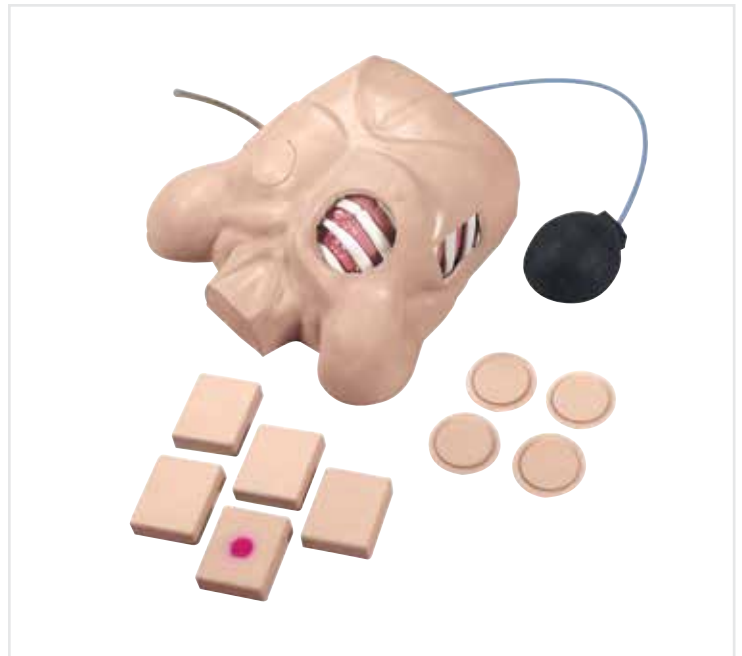




### Life/form® Pericardiocentesis Simulator

The Life/form® Pericardiocentesis Simulator is designed specifically to teach the skills needed to perform this difficult procedure correctly, as well as ongoing chest tube maintenance and the management of pre-hospital chest trauma. The simulator has a pressurised tension pneumothorax site and a site for the surgical placement of a functional chest tube. Fluid colour, volume, and viscosity can be controlled by the instructor. The manikin may be used with any commercially available closed water seal drainage unit. Pericardiocentesis may be performed in the left subxiphoid space and in the left fifth intercostal space. Accurate placement of the needle will allow for the withdrawal of fluid from the simulated pericardium. Includes fluid reservoir bag, foot pump, surgical skin pads, subcutaneous surgical pads, nurse training pads, pneumothorax pads, blood powder, methyl cellulose thickener, simulated pericardium, IV bag, and a hard carry case.

M-1005595



### Chest Tube Manikin

This manikin is designed to specifically 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 pressurised tension pneumothorax site to relieve air that has 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 is controlled by the instructor. The Life/Form Chest Tube Manikin is perfect for teaching the concepts and mechanics of closed water-seal drainage systems like "Pleur-Eva" type units. 61 x 30,5 x 28 cm

M-1017946



### Pneumothorax Simulator

This torso allows an instructor to teach and a student to practise properly inserting a needle to permit built up air pressure to escape the thorax. This model will allow emergency medical personnel to develop the needed skills before administering to a live patient. The torso accepts needle thoracotomy in the second intercostal space in the midclavicular line, or the fifth intercostal space in the midaxillary line. Simulator comes complete with replaceable lungs, a rib cage, and a soft, life-like replaceable skin. Unit can be punctured 75 to 100 times before replacement is necessary.

M-1005713



### Life/form® Adult Sternal Intraosseous Infusion Simulator

The Life/form® Adult Sternal Intraosseous Infusion Simulator is a first of its kind dramatic training aid designed to demonstrate, simulate, and prepare all levels of health care professionals for use of the sternal intraosseous approach. Created with the consultation of experts that developed this technique, incredible realism and accurate landmarks will allow students to simulate this new life-saving procedure with skill, confidence, and accuracy. This procedure is a quick and simple alternative to conventional IV infusion. It saves time and saves lives in demanding emergency environments. The simulator uses a replaceable bone that is designed to be rotated and punctured several times, extending the life of the simulator. The sternum may be filled with simulated blood to better visualise true flashback. 50 x 45,7 x 26,6 cm

M-1017947



**Tracheostomy Care Simulator**

The simulator replicates an adult male containing oral and nasal passages and all appropriate anatomy — pharynx, epiglottis, trachea, oesophagus, stoma, cricoid cartilage, and representative cervical vertebrae. The chest area contains left and right bronchi and the bronchial tree. The oesophagus “dead ends” 2” below the trachea opening. The side of the neck and chest area over the bronchial tree allow viewing of the suction and trachea tube.

The viewing window at the bottom of the simulator shows the location of a suction catheter in the right bronchus (seen) or left bronchus (unseen). Oral, nasopharyngeal, nasotracheal, and tracheal suctioning can be practised along with cleansing of the stoma area. Changing dressings and ties is also possible. Tracheostomy tube is not included. 53 x 28 x 53 cm; 11 kg

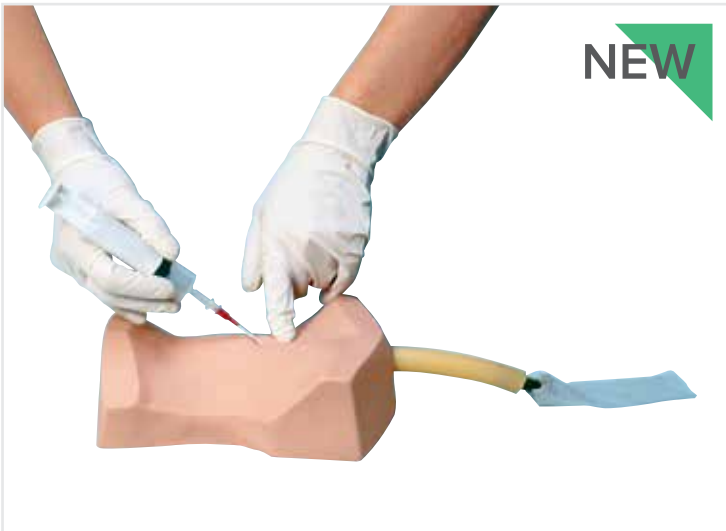
M-1005592



**Cricothyrotomy Simulator**

The Cricothyrotomy Simulator offers the perfect alternative to cadavers. Palpable landmarks include the cricoid and thyroid cartilage. The prominent laryngea is prominent on the hyperextended neck. All landmarks are accurately placed and allow for fast action. The “trachea” in this simulator is replaceable as the “airway” passes completely through from top to bottom. This allows checking the stylet and obturator placement once the “stab” has been made. Complete with a full-size neck, ties can be used to hold the obturator in a secure position. Comes complete with five replacement skins and five cartilage inserts, REN cleaner, instruction guide, and a durable carrying case.

M-1017239



**Deluxe Cricothyrotomy Simulator**

Designed for needle or surgical cricothyrotomy. Landmarks include thyroid cartilage, cricoid cartilage, and cricoid membrane. Inflation of simulated lung verifies correct placement. Adult and 3-year-old tracheas and soft carry bag included. With four overlay skins. 61 x 43,7 x 31 cm

M-1017948



**Cricotracheotomy Trainer**

An extremely realistic alternative to using animal tissue or cadavers. The soft tissue has the feel of real skin and the unique trachea make it a very effective teaching and learning tool. Using a simple disposable trachea transforms the trainer into an effective low-cost system. See [3bscientific.com](http://3bscientific.com) for key skills and features. 45 x 15 x 36 cm

M-1005180



### Simulator for Venous Vessel Access

A unique, anatomically correct female baby developed to teach and practise the vascular accessing of newborns and infants. Barely discernable blue Dermalike™ veins are under the replaceable translucent skin on the head, arms and the right leg. Veins give realistic “pop” and flashback when needle is properly placed. The veins presented include the temporal, external jugular, post-auricular, basilic, cephalic, saphenous and popliteal. Practise accessing, securing, site care, and maintenance for standard IVs and PICC (Peripherally Inserted Central Catheter). A redesigned umbilicus and umbilical valve allows replacement catheterisation with a 5FR umbilical catheter. Nasal and oral openings allow placement of nasal cannulas, as well as nasogastric, and feeding tubes to teach suctioning, securing, dressing, cleansing, and maintenance.

**M-1009799**

#### Replacement Items

|   |                  |
|---|------------------|
| Vein Set with Umbilical Valve                             | <b>M-1009800</b> |
| Artificial blood, 4,5 Litres                              | <b>M-1005837</b> |
| Arm Skin (right & left), w/ Leg Skin (left), Scalp, Veins | <b>M-1005834</b> |

## Life-like range of motion!

### STAT Baby - Training for Life

Realism in paediatric training no longer crawls at old technology rates. STAT Baby brings you the most life-like simulator for infant care utilising new materials for tactile awareness during patient assessment. Developed in conjunction with leading paediatric physician involvement, this baby contains a wide range of skill sets in a simple format that is affordable to all. The infant is sized to a 9-month-old and weighs 8 kg. The size, heft, and feel of this child will stir your emotions when you pick it up.

#### Features:

- Intraosseous leg
- Peripheral IV sites on hand and foot
- Intramuscular and subcutaneous injection sites
- Umbilical catheter option
- PICC line
- ET tube insertion
- Tongue edema and laryngospasm
- LMA insertion
- Trachea care
- NG tube placement with fluid reservoir
- Feeding tube care
- Rectal medication
- 6 pulse locations (2 each brachial, femoral & carotid)
- Defibrillation with shock level of 2-4 joules per kg
- Foley catheter insertion (female)
- Pneumothorax

**M-1005779**



### Paediatric ALS Trainer Complete with Arrhythmia Simulator

Features include bag valve mask ventilation, intubation head, oral or nasal intubation, Sellick's Manoeuvre, accepts NG tube, four lead monitoring, brachial pulse, external chest compressions, jaw thrust, IV sites in hand and arm, two IO legs for intraosseous needle insertion, and aspiration of bone marrow, scalp vein for palpation, cranial sutures, and fontanels. Soft carry bag included. 57 cm; 1,6 kg

**M-1005759**

#### Replacement Items

|   |                  |
|---|------------------|
| 2 Arm/Hand Skins                        | <b>M-1005762</b> |
| 4 Leg Skins                             | <b>M-1005761</b> |
| Arm/Hand Vein Set                       | <b>M-1005763</b> |
| 4 Lungs/Stomachs                        | <b>M-1005764</b> |
| 12 Intraosseous Bones w/ Blood Capsules | <b>M-1005760</b> |





**Advanced Life/form® Infant Crisis™ Manikin**

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 paediatric advanced life support, nursing, hospital, paramedic, and EMT training at every level. Tactile and visual realism combine to provide the most realistic training possible. The most comprehensive PALS trainer available, the manikin allows practise of 4-lead ECG monitoring, IV therapy, umbilical catheterisation, airway management, intraosseous infusion, and CPR – all in one manikin! The unique chest skin with an umbilical cord allows practise of proper techniques in umbilical catheterisation, including cutting and clamping. Fluid may be aspirated through the umbilicus, making this training manikin incredibly life-like. An IV arm and leg allow for realistic practise of paediatric venipuncture. The cephalic and basilic veins are accessible on the IV arm, in addition to 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 practising airway management skills on an infant. Includes a hard carrying/storage case. **M-1005658**



**Basic Life/form® Infant CRisis™ Manikin**

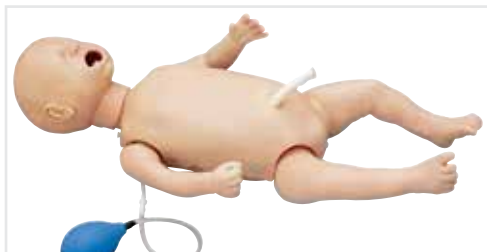
This full-body infant manikin was created to offer realistic training and practise of infant airway management and CPR education. Anatomically correct in both size and detail. Anatomical landmarks provide key features necessary to learn proper infant handling in emergency situations. Also allows practise of intubation, and suction techniques can be performed and evaluated. Designed for use with an uncuffed endotracheal tube measuring up to 1/8" (4 mm) inside diameter. Manikin can be upgraded by adding the Manikin Modular Component upgrades available. Includes artificial blood, IV bag, umbilical cord replacements, carry case, spray pump lubricant, and instruction manual. See [3bscientific.com](http://3bscientific.com) for more details. 8,62 kg **M-1017248**

**Life/form® Deluxe Infant Crisis™ Manikin with Interactive ECG Simulators**

Features the same quality components as the M-1005658 with the addition of the hand-held Interactive ECG Simulator. **M-1018146**



**Upgrade as your skills increase!**



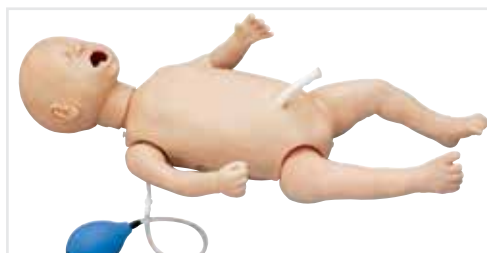
**Life/form® Crisis Baby - M-1017248**



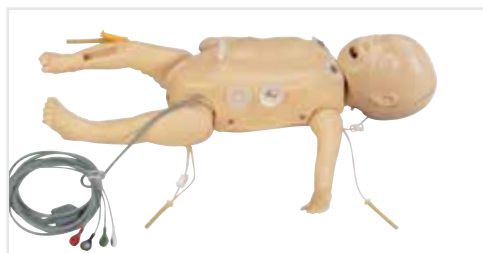
**1. Add an IV Arm - M-1017949**



**2. Add an IV Leg - M-1017950**



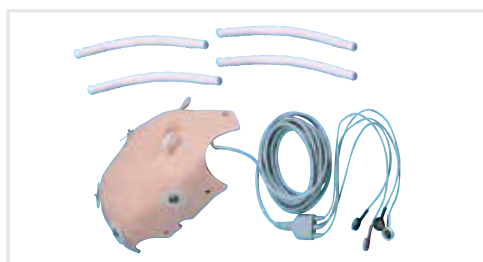
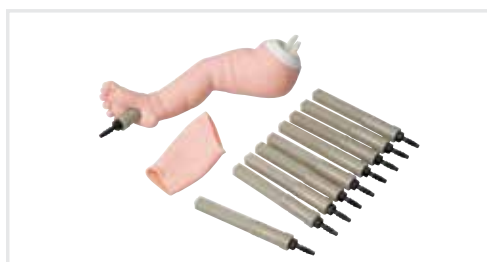
**3. Add the Single Intraosseous Infusion Leg - M-1017951**



**4. Add the ECG/Umbilical Cannulation Skin - M-1017952**



**5. Add the Airway Management Head - M-1017953**





### CPR Cathy Infant Manikin with Electronics

The infant manikin can be filled with water to approximate the same weight and "feel" as a real child of corresponding size. Realistic rise and fall of the chest is provided when air enters under the chest overlay. Torso features life-like rib cage, sternum, xiphoid process, and suprasternal notch to help train effective compression technique. Optional trouble-free electronics housed outside of the manikins offer a unique, patented system for monitoring correct performance during CPR training. Sensors activate lights and/or an audio signal to indicate correct lung ventilation, depth of compression, and correct finger or hand placement. Includes a rugged nylon carrying bag with 12 disposable lungs.

66 x 20,3 x 20,3 cm; 2,72 kg

**M-1017247**



### Advanced Infant Intubation Head with Board

This station trainer incorporates new skin technology. This new material eliminates tearing of the airway, caused by beginning student intubation attempts. Translucent property allows for life-like 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. 38,1 x 25,4 x 20,3 cm; 4,08 kg

**M-1017236**



### Airway Management Trainers

Realistic anatomy includes mouth, tongue, oral pharynx, larynx, epiglottis, vocal cords, trachea, and oesophagus. Separate lungs for auscultation. Inflatable stomach bladder indicates esophageal insufflation. Practise suctioning and oral and nasal intubation techniques. Each Trainer includes a stand to mount head, pump spray lubricant, and hard carrying case.

### Infant Trainer with Stand

The infant airway management trainer features realistic size and anatomy and is perfect for practising airway management skills on an infant. Can be attached to a Resusci® baby brand CPR manikin. 9 kg

**M-1017954**

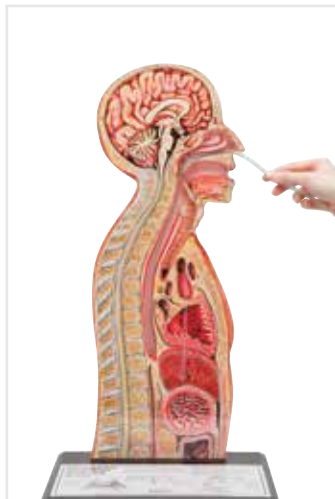


### Infant Intubation Head

Designed to teach oral and nasal endotracheal intubation procedures on children. An excellent choice for student training, both trainers come with teeth, uvula, vocal cords, glottis, epiglottis, larynx, arytenoid cartilage, trachea, oesophagus, and inflatable lungs and stomach. Colour highlighted vocal cords for easy laryngoscope viewing. Infant and 3 year-old accept 2,5 mm and 4,0 mm endotracheal tubes respectively. Each manikin comes with sturdy nylon carrying bag and lubricant.

30 x 20 x 13 cm; 0,8 kg

**M-1017245**



### 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. 58,5 x 30,5 x 8 cm

**M-1005568**



### Newborn Pedi Simulator

This anatomically accurate newborn simulator features a fully articulating head, neck, and jaw, permitting head tilt/chin lift, jaw thrust and neck extension. Realistic mouth, trachea, bronchi, lungs, and distensible stomach for practising gastric suctioning and feeding exercises. Airway with cricocartilages permits intubation, suctioning, and the Sellick manoeuvre. Realistic internal organs for unparalleled CPR performance.

- This simulator is ideal for training:
- Airway management
- Femoral IV
- Intravenous access
- Umbilical catheterisation
- IO access

M-1014584



### Simon® Multipurpose Airway Trainer

Supplied with 6 neck collars, 3 cricocartilages, membrane tape and carrying bag. 76 x 56 x 30,5 cm; 11,4 kg

#### **This upper torso features:**

- Realistic chest cavity with trachea, bronchi and lungs, heart and stomach
- Nominal 18mm airway
- Anatomically accurate mouth, tongue, airway and oesophagus
- Fully articulating head, neck and jaw
- Wide, straight, stiffer epiglottis and realistic vocal cords
- Soft neck with cricocartilages

M-1005827



### Adult Airway Management Trainer

Detailed anatomy provides a clear picture for intubation training: sculpted alveolar sac, bronchial tree, blood vessel structures of the cross-sectioned and exposed flexible lungs, interior main bronchus and oral/nasal pharyngeal spaces. Combine these with an airway complicated by breakout teeth, tongue edema, and laryngospasm, and this airway trainer really stands out. The stomach swells with esophageal intubation, or excessive pressure with the BVM during rescue breathing, and it is also has the capability of vomiting. This multi-tasking manikin comes complete with instructions for use, soft carry bag, lubricant, and replaceable lungs and stomach. 32,0 x 23,9 x 11,9 cm; 18,65 kg

M-1005774



### Critical Airway Management Trainer

This very difficult intubation head, coupled with the CPR torso, supplies the challenges for initiating respiratory care to the critical patient. By using the features of tongue swelling and laryngospasm the instructor creates a critical airway management problem that requires the student to perform cricothyrotomy. In addition, two external and one internal bleeding wounds demand attention with suctioning and bleeding control. 68,5 x 43 x 25,4 cm

M-1017955

### Adult Replacement Lungs/Stomach

For the Critical Airway Management Trainer – 3 Pack.

M-10017956



### Airway Larry Adult Airway Management Trainer

This trainer simulates a non-anaesthetised patient and features anatomical landmarks such as: teeth, tongue, oral and nasal pharynx, larynx, epiglottis, arytenoids, false cords, true vocal cords, trachea, lungs, oesophagus, cricoid cartilage and stomach. 63 x 30,5 x 40,6 cm; 15,1 kg

#### **Train the following procedures:**

Oral, digital, and nasal intubation E.T., E.O.A., P.T.L., L.M.A., E.G.T.A., and Combitube® insertion, Sellick manoeuvre, ventilation, CPR, suction techniques, and proper cuff inflation call all be practised and evaluated.

M-1005633



**NEW**



### NG Tube Insertion Trainer

Use this economical trainer for instruction of nasogastric tube insertion and care. The oesophagus and stomach reside within the head for ease in storing and transporting to various classrooms or lab tables. The head comes mounted on a flat plate to hold it steady. No moving parts and simple construction assure longevity. The only replacement part is the stomach bag. Clean up is easy and quick.

**M-1017250**



### Life/form® NG Tube & Trach Skills Simulator

The Life/form® NG Tube & Trach Skills Simulator aids the instruction and practise of vital tracheostomy skills and gastrointestinal care procedures through nasal and oral access. This simulator features realistic landmarks, trachea, oesophagus, lungs and stomach. For exceptional realism, methyl cellulose can be mixed with water to simulate mucous-like fluids in stomach and lungs of a real patient. 68 x 41 x 26 cm; 16,5 kg

- Dressing changes and cuff inflation
- NG tube care, including insertion, irrigation, and removal
- Gastric lavage and gavage
- Feeding tube insertion and removal with the ability to practise feeding
- Nasoenteric and oesophageal tube care
- Oropharyngeal and nasopharyngeal care
- ET tube care

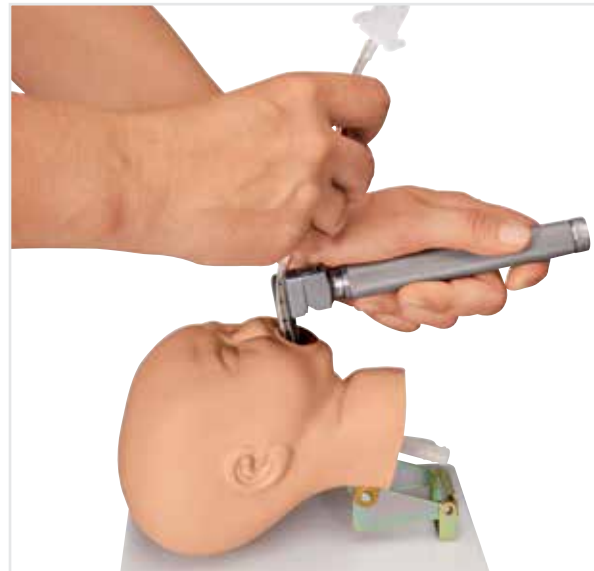
**M-1006058**



### Economy Adult Airway

This detailed adult intubation head comes mounted for clinical teaching and practise of advanced airway management. Intubation procedures and skills, including anatomy knowledge and recognition, endotracheal intubation, nasotracheal intubation, use of field emergency airway adjunct tubes like LMAs and Combitube, securing, and suctioning, and maintenance of the installation can all be practised with this unit.

**M-1005780**



### Intubation Head

This model is especially designed to instruct and practise endotracheal intubation. The accurately modelled life-size head allows the correct depth, angle, and pressure of insertion of a laryngoscope to be taught. Mounted on base. Delivered without laryngoscope. 21 x 16 x 17,5 cm; 0,6 kg

**M-1005102**



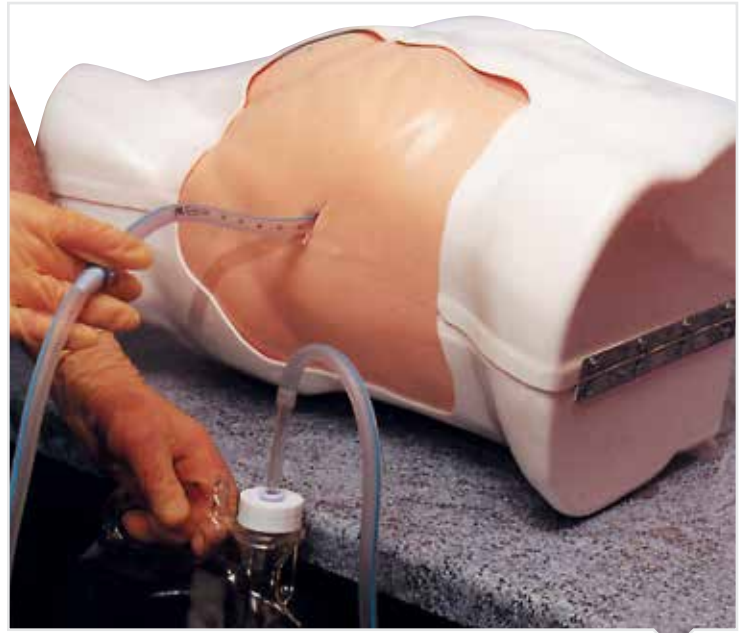
### Endotracheal Intubation Simulator

In securing an airway, endotracheal intubation requires the highest skills and is accompanied by risks. To enable you as emergency medical staff to perform intubations, you should certainly use the opportunity to practise this during the administration of anaesthetic in the operating room. The intubation simulator provides exceptionally good and realistic intubation training. 75 x 45 x 24 cm; 6,2 kg

**Features:**

- Acquire both the skill of oral and nasal tracheal intubation.
- Acquire the skill of handling supraglottic airway devices (e.g. laryngeal mask airway, esophageal gastric tube airway).
- Confirm left and right air sound with a stethoscope
- Determine ventilation of one lung

**M-1005396**



### Chest Drain Simulator

This innovative design not only simulates realistic body tissue but provides an alternative to the use of animals. The design is unique in having a replaceable chest wall with ribs that are encased into the realistic simulated flesh that forms the torso.

This fleshy part is replaceable and can used for up to 25 incisions. It is housed in a white plastic torso-shaped box that is firmly secured and has strong sucker-feet to ensure non slip use on smooth table-top surfaces. The torso presents as a patient lying on his back. 57 x 37 x 43 cm

**M-1005175**



### Surgery and Laparoscopy Torso

Aimed at all levels of surgeons in training whose surgical skills require extra practise. Once set up, the torso can be used to self-educate using his/her preferred surgical laparoscopic instrumentation for a variety of techniques. 75 x 55 x 25,5 cm

**M-1005135**

**Additional Items**

2 Neoprene Sheets

**M-1005137**

Abdominal Skin w/ Fatty tissue

**M-1005138**



### Laparoscopic Trainer

The Portable Laparoscopic Trainer is designed to provide low cost assistance in laparoscopic training. 39 x 39 x 22 cm

- Supplied with 4mm black Neoprene skin
- Simple to assemble and ready for use in seconds
- Works with wet tissue (eg. Pig liver) or dry (eg. foam)

**M-1005139**



**AirSim Advanced Model**

The AirSim Advanced Model 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 Advanced features an improved neck design allowing for accurate articulation.

AirSim Advanced also features an anatomically accurate nasal passage, inflatable tongue to increase difficulty of airway and an option to include "breakout teeth" to simulate the effects of bad practise in laryngoscopy. 46 x 26 x 33 cm; 3,05 kg

AirSim Advanced M-1015527  
With Bronchial Tree M-1015530

**AirSim Standard Model**

The AirSim Standard is uniquely constructed to allow realistic feedback during airway management procedures and provides true, anatomically correct and visually accurate internal features.

The novel neck construction allows the head to be moved and secured in a number of positions. This ranges from the standard "sniffing" position to more difficult scenarios.

The AirSim Standard also features an inflatable tongue with real-life size and texture. There is also an option to include "breakout" teeth to simulate the effects of bad practise in laryngoscopy. 46 x 26 x 33 cm; 3,05 kg

M-1015515



**AirSim Baby**

True to its heritage, AirSim Baby has realistic anatomy and a clinical functionality that enables basic and advanced paediatric airway management.

AirSim Baby 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 current videolaryngoscopes.

Realistic airway allows for training in all aspects of infant airway management including positive pressure ventilation, insertion of laryngeal masks and endotracheal intubations (nasal and oral).

M-1015536

▶ More details about our products available at [3bscientific.com!](http://3bscientific.com!) ◀





**AirSim Multi Model**

The AirSim Multi contains the key features of the AirSim Standard (M-1015515) with the addition of a nasal passage and a chin. The AirSim Multi facilitates training on nasal procedures as well as bag and mask ventilation techniques.

The nasal passage has been developed in a manner similar to the main airway. This gives the same anatomical realism and functionality, important landmarks such as the turbinates are clearly defined. In addition, the material used offers the same tactile feedback which is delivered with the main airway itself.

**M-1015519**

**AirSim Bronchi Model**

The AirSim Bronchi is the latest product addition to the AirSim family, providing anatomically correct detail down to the fourth generation bronchi.

The AirSim Bronchi provides exceptional detail in both internal and external features; made possible through a combination of cutting edge moulding technology and carefully handcrafted processes. 46 x 26 x 33 cm; 3,05 kg

**M-1015523**



**Truman Trauma**

The Truman Trauma System offers an anatomically correct simulated human torso designed for trainees to practise several surgical procedures together with the renowned AirSim head for training the full range of airway management and resuscitation skills. The Truman Trauma System also allows the use of replaceable tissue sets that allow each learner a life-like & unique surgical experience. 79 x 45 x 28 cm

- Chest tube insertion
- Needle Decompression of tension pneumothorax
- Cardio Pulmonary Resuscitation
- Needle and Surgical Cricothyroidotomy
- Airway Management Skills including OP and NP airway tube insertion, tracheal intubation, bag valve mask techniques, supraglottic airway insertion and ventilation
- Percutaneous Tracheostomy
- Identification of tracheal deviation and jugular vein distension which are warning signs attributed to tension pneumothorax

**M-1017521**

**Replacement Part**

|                              |                  |
|------------------------------|------------------|
| Needle Decompression Inserts | <b>M-1017611</b> |
| Larynx Piece                 | <b>M-1017612</b> |
| Overlay Neck Skin            | <b>M-1017613</b> |
| Airway Sealing Tape          | <b>M-1017614</b> |
| Lubrication                  | <b>M-1017615</b> |
| Black Carrying Case          | <b>M-1017616</b> |



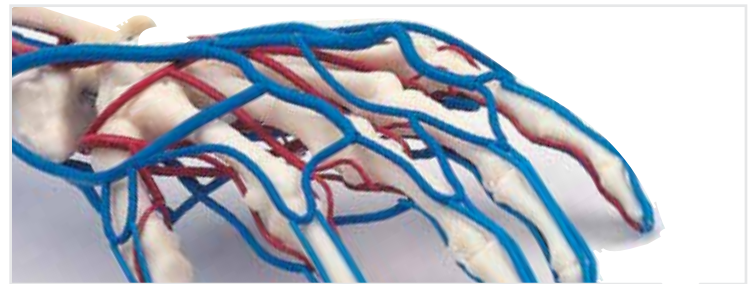
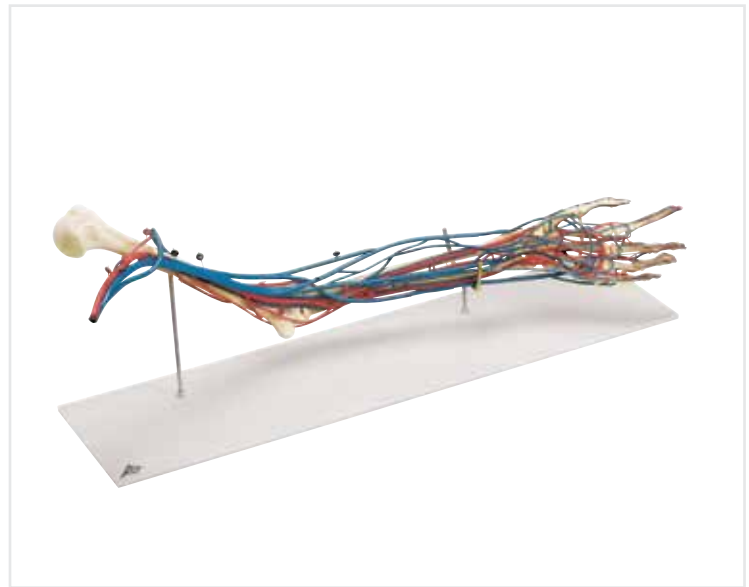
### Peter PICC Lines Simulator

The importance of vascular access models continues today, with over 80% of hospitalised patients receiving intravenous therapy. It has become critical in controlling costs to ensure that the competency of all IV staff is assessed, maintained, demonstrated, and improved continually. Vascular access simulators are acknowledged as the most efficient way to teach staff and assess competency. The trainer is an upper torso model including, neck, chin, right arm, ribs, muscle tissue, 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. 5,4 kg

- Model presented in supine position with arm at 90-degree angle to body
- Movable chin simulates occlusion of jugular
- Anatomically correct cephalic, basilic, and median basilic veins, jugular, subclavian, and superior vena cava
- Palpable ribs allow measurement of proper catheter length externally
- Replaceable arm skin allows visualisation of veins
- Standard IV catheter placement
- Distal tip of catheter viewable in the superior vena cava
- Infusible veins allow realistic blood return in flashback chamber

M-1017957

**Proven in over 13 years of clinical use!**



### Vascular Arm

This life-size model provides a complete understanding of the circulatory system of the arm and hand. An excellent teaching aid for venipuncture training. Modeled in a semiflexed position with the brachial, radial, and ulnar arteries and accompanying veins with their radicals shown. The complete circulatory system of the hand is shown on both palmar and dorsal surfaces. Comparative sizes of the various blood vessels are clearly indicated and facilitate the study of the blood circulation in the arm. Mounted on a stand with key card. 66 x 18 x 28 cm; 2 kg

M-1005109



### Deluxe Venous Access Device Model

Reproduction of a male chest mounted on a collapsible easel designed for training in vascular access device maintenance and dressing central venous catheters. Made of skinned, lightweight urethane foam, this model may be washed with soap and water or with antiseptics. Mounted on a collapsible easel and packed with its own carrying case. 53 x 38 cm; 4,5 kg

- Reproduction of a male chest mounted on a collapsible easel
- Designed for training in vascular access device maintenance and dressing central venous catheters
- Bilateral subclavian venous catheter connections
- Implanted PORT-A-CATH
- Both catheters may be flushed with water
- Accepts betadine and most other antiseptics
- Replaceable chest module

M-1005563



### Venipuncture Training Hand

The back of the hand is the most common site for injection training. With this model you can teach the common procedure for IV drips. Comes with blood powder. 11,4 x 25,4 cm

M-1017962



### Life/form® Portable IV Arm and Hand Trainers

The economical Life/form® Portable IV Training Arm and Hand combine realism 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.

The Trainers are constructed of soft material with life-like veins that are visible and palpable. Veins are accessible at the antecubital fossa, along the forearm, the back of the hand, and thumb, making it possible to practise venipuncture at any of the common sites. The simulated skin realistically rolls as you palpate the veins and the characteristic “pop” can be felt as the needle penetrates the vein and realistic flashback can be observed.

These trainers are ideal for teaching venipuncture techniques including starting IVs and introducing over the Needle IV catheters. Under normal use, hundreds of injections may be performed.

Trainer Includes: two IV bags, packet of blood powder, fluid supply stand, two pinch clamps, 3 cc syringe, 12 cc syringe, 12 gauge needle, a winged infusion set, and a plastic clamshell case for storage.

**IV Hand**  
 Light Skin M-1017958  
 Dark Skin M-1017959

**IV Arm**  
 Light Skin M-1017960  
 Dark Skin M-1017961

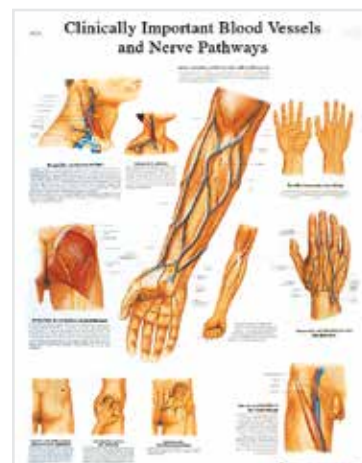
More details about our products available at [3bscientific.com](http://3bscientific.com)!

### Central Venous Cannulation Simulator

ACLS and ATLS participants will find this simulator to be the ideal trainer. Anatomically accurate, palpation is exactly the same as on a patient. The sternal notch, sternocleidomastoid, clavicle, and other supporting features make this simulator a pleasure to work with. Internal features include a replaceable muscle and bone section, subclavian, internal jugular, external jugular, and carotid. Use of a Swan-Ganz catheter is possible and changing of the internal tubing is extremely easy. The neck of the simulator is positioned to the left, making landmark identity quite easy visually. The sternal notch “sinks” 1-1.5 cm when palpated. All external and internal landmarks correlate to a live patient. Modified to meet ATLS and ACLS standards, this simulator has proven itself in the emergency medical field. The consultant for this project was Forrest M. Gridley, M.A., P.A.-C. Includes fluid supply bags, replaceable skin, needles, one quart of Life/form® blood, and instruction guide in a hard carry case. Fluid supply stand not included.

**M-1005595**

**Replacement Parts**  
 Artificial Blood, 1L M-1005611  
 Tubing Sealant M-1005648

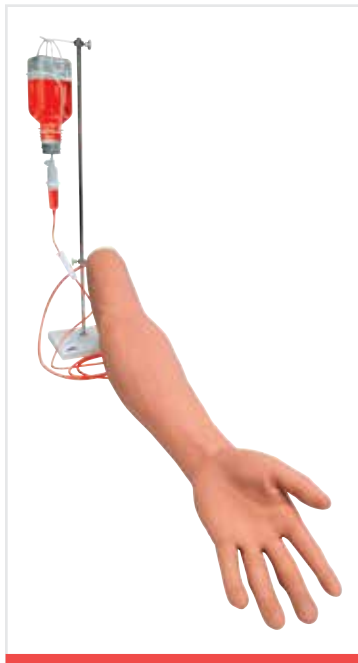


### Clinically Important Blood Vessels and Nerve Pathways

This poster highlights blood vessels and nerve pathways in the neck, groin, arm, hand, and gluteals. Printed on premium glossy paper with ultra-thin lamination for wipe clean care. Mounted with metal rods on top to enable easy display. Laminated. 50 x 67 cm

**M-1001530**





## Changing skin and veins is now faster and easier!

### I.V. Injection Arm

This injection arm, made of 3B Scientific® SKINlike™ silicone, is unique in quality and design and allows realistic, hands-on training to develop competence in medical staff. It is also highly suitable for group instruction because of its high quality, stain resistance and easy-to-clean soft material. Delivered with stand, artificial blood, 2 replacement tubing systems, plastic bottle, syringe and deluxe storage carton. 74 x 19 x 14 cm; 2,8 kg

#### Ideal for practising:

- Intravenous injections
- Correct puncture of peripheral veins for blood sampling. The following veins can be punctured: basilic vein, cephalic vein, median cubital vein, dorsal venous rete of hand
- Positioning of a butterfly catheter

M-1000509

## Incredibly realistic with extreme attention to detail!

### I.V. Injection Hand

An incredibly realistic hand with extreme attention to detail, right down to the fingerprints. Students have the opportunity to not only practise injection but to develop important manipulation skills provided by the flexion of the wrist. Under normal use hundreds of injections can be performed before skin or veins need replacement. Supplied in storage box.

- Includes injectable metacarpal, digital and thumb veins on dorsal surface
- Soft, flexible fingers are separately moulded
- Flexible wrist
- Skin rolls when veins are palpated
- Perform hundreds of injections before replacing vein & skins

Light Skin M-1017963

Dark Skin M-1017964

#### Replacement Parts

Veins M-1005668

Skin M-1005667



## The perfect volunteer to train your healthcare students to administer intramuscular injections.

### Intramuscular Injection Simulators

These simulators are the ideal way to teach proper intramuscular injection techniques. Strap it onto the upper leg, upper right arm or the buttocks to locate all necessary intramuscular injection sites. Operates on AA batteries.

- Truly Unique!
- Both Audio and Visual Feedback
- Use for Training and Performance Evaluation

A. Upper Right Arm Simulator M-1009840

B. Buttock Simulator M-1000514

C. Upper Leg Simulator M-1000511





### Arterial Stick Exercises and Injection Arm

This right arm combines all features required for arterial stick exercises, i.v., i.m. and subcutaneous injection and infusion training as well as blood collection exercises:

- Arterial stick exercises: Arterial pulses are automatically generated at the radial and brachial locations with a peristaltic pump. AV anastomosis for simulation of haemodialysis
- I.v. injection in venous network of arm and hand. A pressure bulb allows to increase or decrease venous pressure
- I.m. injection in deltoid area
- Subcutaneous injection areas on the volar side of the forearm and the lateral side of the arm
- Incisions and suturing exercises can be practised on a special pad
- Supplied with artificial blood, blood dispensing bag, funnel, talcum powder, replacement skin, base and carrying bag

115 Volt      M-1005810-115  
230 Volt      M-1005811



### I.V. Training Hand

An economic and easy to transport model to train I.V. injection. Made of durable material for repeated use. 35 x 13 x 5 cm; 0,8 kg

#### Features:

- Palpable life-like veins that even roll-over
- Suitable for blood sampling or fluid injection
- Supplied with carrying tray and artificial blood

M-1005754

#### Optional Equipment

|                     |           |
|---------------------|-----------|
| Hand Skin           | M-1005755 |
| Arm/Hand Vein Set   | M-1005756 |
| Reservoir Blood Bag | M-1005757 |



### Intradermal Injection Simulator

Now your students can practise intradermal injections safely and conveniently with the Life/form® Intradermal Injection Simulator. Life/form® vinyl skin ensures a realistic training experience. The arm features eight sites for practising intracutaneous injections. If fluid is properly injected, a characteristic skin welt will form. The welt is removed by withdrawing the fluid after practise. Each site is reusable by dozens of students. Simulator includes arm section with eight injection sites, sealant, syringe, teaching guide, and storage box.

33 x 28 x 13 cm; 0,9 kg

- Natural cast from wrist to just below elbow
- Skin has realistic feel and appearance
- Includes eight, reusable practise injection sites

M-1005628



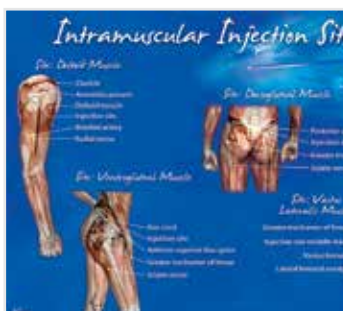
### Intra-muscular Injection Pad

A simple trainer that simulates muscle tissue for hands-on training.

- Injection made to a depth of 50 mm
- Life-like skin allows multiple punctures
- Will absorb fluid

10,5 x 6 x 8,5 cm

M-1005190



### Intramuscular Injection Sites Poster

This visual aid was developed specifically for teaching, demonstrating, training, and studying of intramuscular injection site locations. The poster illustrates site landmarks and muscles in the deltoid, dorsogluteal, and vastus lateralis regions. Laminated and perfect for mounting in a classroom or skills lab. Available in English only. 20 x 61 cm

M-1018427



### Geriatric IV 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 catheterise the vessel and the specially developed skin is exceptionally thin. If your students work with the aged, this adjunct to your teaching lab will enable them to better serve this group as they pursue their careers. 91 x 36 x 23 cm; 10 kg

M-1005777



### Advanced Four-Vein Venipuncture Training Aid™

The Advanced Venipuncture TrainingAid™ featuring four barely discernable blue veins in 3 different sizes - with the fourth 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. The unique material offers many improved properties - 50% less needle drag when accessing the underlying veins, improved tear resistance to allow twice as many "sticks", no "oily/sticky" surface, no baby powder needed and it is stain resistant. The blue veins are made of Dermalike V™, a material with properties more similar to real veins, as you do not use excessive force to access the veins compared to the latex tubing still being used by other manufacturers. See online at 3bscientific.com for full description.

Light Skin M-1017967

Dark Skin M-1017968



### Advanced Venipuncture and Injection Arm

Made with a soft vinyl skin cover and a core of stitchable foam to provide a life-like suturing experience for students or a realistic suturing demonstration by an instructor. Realistic skin texture with wrinkles, pores, and visible fingerprints. Soft and pliable for easy sewing, the skin is tough enough so that sutures will not pull out when tightened. The unit is supplied with three "wounds." These "wounds" can be sutured repeatedly until the skin around them is finally worn out; then, new "wounds" can be cut. Although disposable, the leg provides hundreds of suturing experiences before wearing out. Conservatively, over one hundred cuts can be made on the trainer and each of these cuts can be sutured several times.

Light Skin M-1005678

Dark Skin M-1005679



### Four-Vein & Two-Vein Venipuncture Training Aids

The Four-Vein Venipuncture Training Aid has four barely discernable blue veins in three different sizes – with a fourth vein more deeply placed. The Two-Vein Venipuncture Training Aid has two barely discernable blue veins of different inside diameters, positioned at the same depth in a semi-transparent, soft tissue-like material. Your patients don't have one size of veins, so why practise and learn on a "one size vein fits all" IV arm? These models were specifically designed to make accessing more challenging, as this is how technique and confidence are improved.

Now made with latex-free Dermalike™ with 50% less needle drag when accessing the underlying veins and improved tear resistance to permit a greater number of needle "sticks". These compact, lightweight, easily transportable, economical, and non-staining training aids are a great alternative to larger, heavier and more expensive models.

Two-Vein, Light Skin M-1017969

Two-Vein, Dark Skin M-1017970

Four-Vein, Light Skin M-1017971

Four-Vein, Dark Skin M-1017972



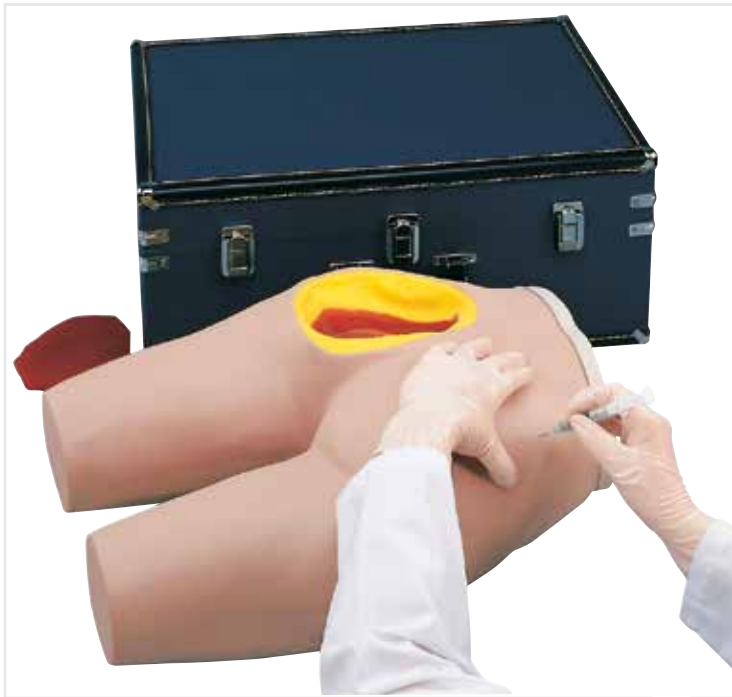
### Venatech IV Trainer

This IV trainer is easily attached to a person's arm so the student can practise venipuncture techniques, including positioning on a live subject, without the risks associated with puncturing living tissue. The trainer includes the three main veins used in phlebotomy in correct anatomical position. Besides performing actual IV practise, the trainer helps students learn basic communication skills such as explaining the procedure to the patient, asking them to close and release their fist, etc.

M-1017966

▶ Visit **3bscientific.com** to see the economic range of replacement parts! ◀





### Intramuscular Injection Simulator

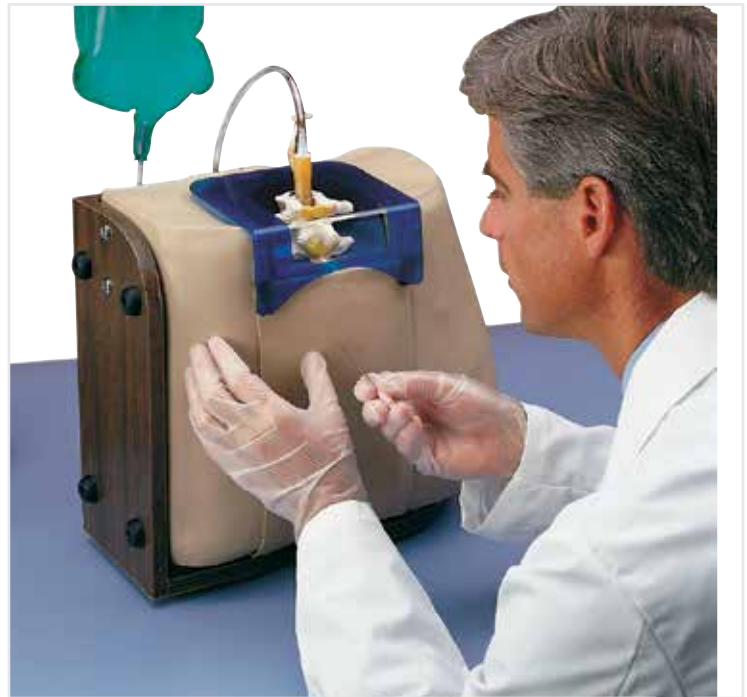
Here is the perfect volunteer for training your beginning health care students to administer intramuscular injections. Always available for class demonstrations or practise by groups of 1 to 30, the simulator offers both visual and tactile learning of three types of intramuscular injections.

A simulated bony structure is embedded in the torso and represents the superior end of the femur, the posterior superior and anterior superior iliac spines, and the sacrum. The bony structure allows students to identify proper injection sites. Cut-away section of the upper, outer quadrant of the left gluteal area allows students to visualise the underlying structures. The gluteus medius and gluteus maximus muscles, sciatic nerve, and vascular structures are clearly shown.

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. Simulator comes complete with teaching guide, supply of syringes, and hard carrying case. 56 x 24 x 40,5 cm; 8,5 kg

- Practise dorsogluteal, ventrogluteal, and vastus lateralis injections
- Palpable anatomical landmarks

**M-1005586**



### Spinal Injection Simulator

A valuable training/teaching aid for the realistic demonstration and practise of all spinal injections. Excellent simulation qualities and easy-to-change vertebral column with replaceable skin make this Life/form® product the very best available.

Careful duplication of the anatomy ensures proper resistance in needle puncture and accurate palpation reference points. The replaceable skin can be changed without tools in minutes. The spinal column can be charged with fluid and placed in sitting or lateral positions for injection practise. The L1 and L2 sections of the vertebral column are clearly visible. The functional portion of this injection model includes L3-L5 vertebrae, plus the sacrum and coccyx. Simulator includes a fluid supply bottle with connectors, teaching guide, and hard carrying case. 48 x 44,5 x 26,5 cm; 12 kg

**M-1005603**

#### Replacement Parts

Skin, Musculature, Spinal Cord  
Lubricant, 250 ml

**M-1005604**

**M-1008575**



### Lumbar Epidural Injection Trainer

Help anaesthetists to acquire the necessary tactile skills for epidural anaesthesia 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. 27 x 21 x 11 cm

#### Features

- Tactile and visual access to the lumbar spine, the epidural space and the dural sac
- Positioning for 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 intraspinal ligament
- Supplied with an all-metal Tuohy needle and a loss of resistance syringe

**M-1005153**

#### Replacement Parts

Smooth Skin  
Ligamentum flavum  
Muscle layer  
Instrument kit (puncture needle & syringe)  
Vertebral bones and Intraspinous ligament 5 Spinal  
Cord fluid-filled sachets

**M-1005154**

**M-1005155**

**M-1005157**

**M-1005158**

**M-1005156**

NEW



### Epidural & Spinal Injection Trainer

This epidural and spinal injection trainer is very impressive thanks to its extremely realistic haptic and acoustic feedback, and the use of high-quality, hard-wearing materials. 45 x 35 x 24 cm; 3 kg

Thanks to close cooperation with epidural anaesthesia specialists, incomparably realistic conditions could be recreated.

The light, compact structure can be used in a wide variety of ways. The device has low operating costs and is intuitive to use, ensuring lasting, high-level performance.

#### **A summary of the device's main functions:**

- Epidural anaesthesia using the loss-of-resistance and the hanging-drop technique
- Spinal anaesthesia with realistic resistance of the dura and arachnoid mater with or without a cannula
- Fluid-filled spinal canal with realistic outflow rate thanks to the ability to
- Adjust the excess pressure
- An epidural catheter can be inserted into the epidural space
- Closed water system
- Easy to clean

**M-1017891**

#### **Replacement Parts**

Skin **M-1017892**  
LOR Insert Set **M-1017893**

▶ Visit [3bscientific.com](http://3bscientific.com) for detailed information about all of our products! ◀

Back





### Chester Chest™ with ADV ARM

A new, more advanced arm which can also be ordered separately to upgrade your Chester Chest™! Unequaled teaching aid which makes it possible to learn how to use the following long term vascular accesses perfectly:

- Implanted Port
- Central Venous Catheter (CVC)
- Peripherally Inserted Central Catheter (PICC)

**M-1009801**

#### Optional Item

Advanced Arm for Chester Chest **M-1005840**  
Replacement Skin **M-1005841**



### Injection Arm

This right arm combines all features required for i.v., i.m., subcutaneous injection and infusion training as well as blood collection exercises. 76 x 15 x 15 cm

- I.v. injection in subtle venous network of arm and hand: cephalic, basilic, antecubital, radial and ulnar veins. A pressure bulb increases or decreases venous pressure
- I.m. injection in deltoid area
- Subcutaneous injection on the volar side of the forearm and the lateral side of the arm
- Supplied with artificial blood, blood dispensing bag, funnel, talcum powder, replacement skin and veins, base and carrying bag

**M-1005809**



### Two-in-One i.m. Injection Model of Buttock

This unique model of an human buttock has a special two-in-one function: On the right hand side, the anatomy of the bones, ilium crista, greater trochanter, m. gluteus medius, nerves and veins can be studied through the transparent outer structure. The student can transfer what he has learned about the position of nerves, veins etc. to the left hand side on which intra-muscular injections can be practised. Anatomical landmarks can be palpated through the soft skin to identify the correct positions for injection. The injection of fluid (water) is possible. Correct injections are confirmed by a green light, if the injection is placed in a wrong position or too deep, a red light will appear and a buzzer will sound.

38 x 35 x 22 cm; 5 kg

**M-1005394**



### Buttockmate - i.m. Injection

This easy to handle simulator of a human buttock can be fastened with a belt on the body of a student or a training doll. It allows practising of intra-muscular injections and also the injection of fluid (water) is possible. If the injected part is incorrect, a buzzer, which works with a 9 volt battery and a red light, will give a warning sound. The durable, soft and very realistic skin shows no needle marks even after many exercises. 14 x 34,5 x 49,5 cm

**M-1005395**





### Surgery Trainer

Allows for open surgery practise and offers an advanced skills capability for cut and suture practise. The single sided skin pad and a piece of abdominal bowel are replaceable. Sutures and string not provided. 25 x 23 x 9 cm

- Highly portable
- Rubber suction feet secure the base providing easy working conditions
- Washable, durable and all parts are replaceable

**M-1005144**



### Arterial Puncture Arm

This easy to use training aid is ideal for practise 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 life-like backflow of blood in the syringe, confirming proper needle location in the artery.

Delivered with 2 syringes and tubules, artificial arterial blood, 2 replacement arterial sections and carrying case. 71 x 13 x 33 cm; 7,3 kg

**M-1005598**



### Skin Suture Trainer

A great low cost way to practise surgical opening and closing techniques. 11 x 14 cm

- Economical reversible pad
- Designed to make complex incisions such as "flap and dog turn" suturing more realistic
- A sub-dermal layer is present to make secure intra-dermal sutures
- Base has suction feet to enable slip free use

**M-1005134**



### Suture Pratise Trainer

This is a basic skill trainer which offers a limited facility for knot tying. The foam can be turned over and or replaced. Sutures and string not provided. 24 x 22 x 7 cm

- Highly portable
- Rubber suction feet secure the base providing easy working conditions
- Washable, durable and all parts are replaceable

**M-1005147**



### Lumps and Bumps Box

A simple and very effective tactile trainer has been developed to make a Lumps and Bumps Box. The trainer is ideal for juniors getting to grips with their sense of touch and to understand the basic art of description about the feeling through gentle palpation.

- The trainer can be lap held and placed on a smooth surface where strong sucker feet provide stability while in use
- Contains 2 skins and 2 layers of foam, an assortment of shapes compatible with modern teaching for Clinical skills centers
- Can be varied and customised to suit individual needs

**M-1005164**



### Life/form® Paediatric Lumbar Puncture Simulators

The Life/form® Paediatric Lumbar Puncture Simulator represents a 10-12 month old infant placed in a left lateral decubitus position with the neck and knees flexed, approximating the necessary foetal position. The embedded iliac crest offers exceptional realism, while the removable spine, spinal canal and skin pad make training simple and hassle free. Lumbar puncture may be performed in the L3-L4, L4-L5, or L5-S1 spaces. The correct site can be located by palpating the iliac crest and spine. A small "give" will be felt as the spinal needle is advanced slowly into the proper space. Fluid will flow when the needle is in proper position. Students will appreciate the opportunity to practise this delicate but commonly performed procedure on a simulator that is both appealing and anatomically accurate. 9 kg  
M-1017244

### Realistic Resistance



### Life/form® Paediatric Head

An invaluable tool for demonstrating and practising infusions and injections in the temporal and jugular veins of a newborn to a twelve-month-old infant. The neck is made of soft, flexible foam to provide a realistic feel of palpation and puncture. Supplied with hard carrying case. 45 x 23 x 12 cm; 3,8 kg

#### The paediatric head includes the following:

- Head (to represent a six-month-old infant) with skin and veins
- Fluid supply bag
- 2 different gauge winged infusion needles
- Artificial blood

M-1005630

#### Replacement Parts

Replacement Skin & Vein Kits  
Vein Replacements Only  
1 Quart Life/form® Venous Blood  
1 Gallon Life/form® Venous Blood

M-1005631

M-1005632

M-1005611

M-1005691



### Life/form® Circumcision Training Kits

Made with soft, life-like material, which is realistic to the touch. The trainers include the foreskin, glans penis, frenulum, meatus, and coronal groove. Practise separating foreskin from the glans, removal of the foreskin, and suturing techniques. The trainers have been designed for clamp methods, dorsal slit, and sleeve circumcisions.

Infant Kit M-1017254  
Pre-teen Kit M-1017255  
Teen Kit M-1017256  
Young Adult Kit M-1017257



### Life/form® Paediatric Arm

Providing realistic sensation and response, the life-like vinyl skin actually rolls as you palpate to allow location of the vein. A soft foam is used to simulate the deltoid muscle and allows the student to "get the feel" of administering intramuscular injections to children. Simulated bone in the shoulder defines and limits the injection area. Water may be used as an injection fluid in the shoulder area. Includes a Life/form® Arm with white skin, fluid supply bag, 3 cc syringe, one pint Life/form® blood, teaching guide, and hard carrying case. 55,9 x 28 x 15,2 cm

M-1017973

#### Replacement Parts

Skin & Vein Kits  
1 Quart Venous Blood  
1 Gallon Venous Blood

M-1018148

M-1005611

M-1005691

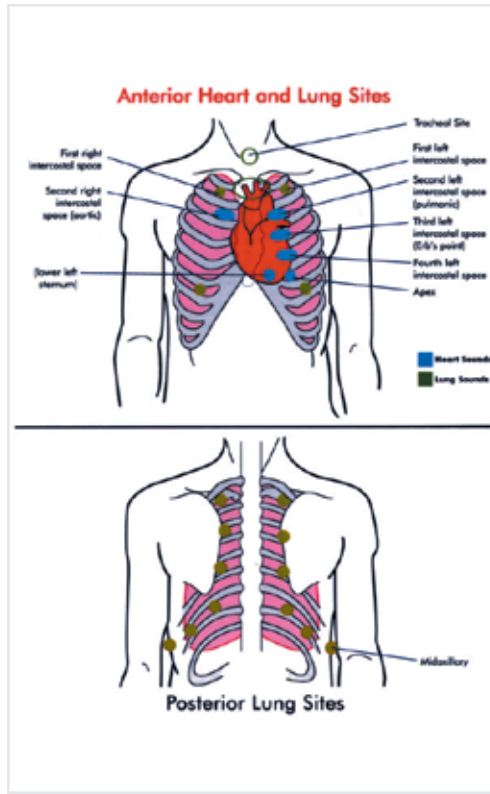
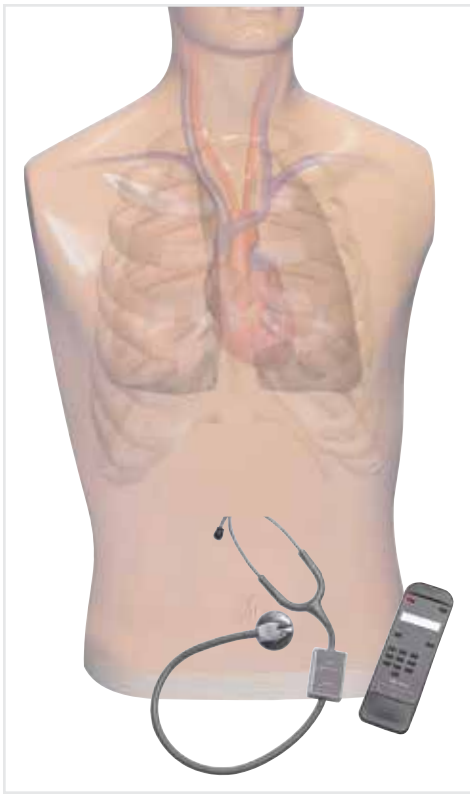


### Life/form® Difficult Access Infant IV & IO skin

The Life/form® Difficult Access Infant IV & IO skin sleeves have been developed to fit over the arms and legs of most infant training products. This soft, life-like skin is meant to represent a chubbier infant and may be used to prepare for intravenous and intraosseous insertions where the vascular system may be difficult to access. The durable skin should allow for many uses before replacement is necessary. Pack of 3.

- It's simple
- Can change it out in seconds
- Easy to use
- Provides for challenging practise

M-1017974



### Auscultation Trainer and SmartScope™

The instructor selects from a menu of heart and lung conditions by wireless remote control. The manikin presents itself as a real patient without visible auscultation sites. The student must palpate to identify correct auscultation locations, and will hear different heart and lung sounds as the SmartScope™ is moved to different locations on the manikin. A diagnosis of the condition selected by the instructor can be made by comparing the variations in sounds occurring at different sites. Just like a real patient!

Lung sounds can be detected at 5 anterior, 10 posterior, and two midaxillary locations. Students can practise auscultation at six anterior heart sites. The remote control does not have to be pointed directly at the manikin or SmartScope™ to work and one remote control will operate multiple sets of SmartScope™ or manikins simultaneously. Listen to the sounds either using headphones or the SmartScope™ or by connecting to an amplifier or speaker (not included). Range on the unit is up to 100 feet of remote access. 68,6 x 43,2 x 27,9 cm; 12,3 kg

Trainer

M-1005642

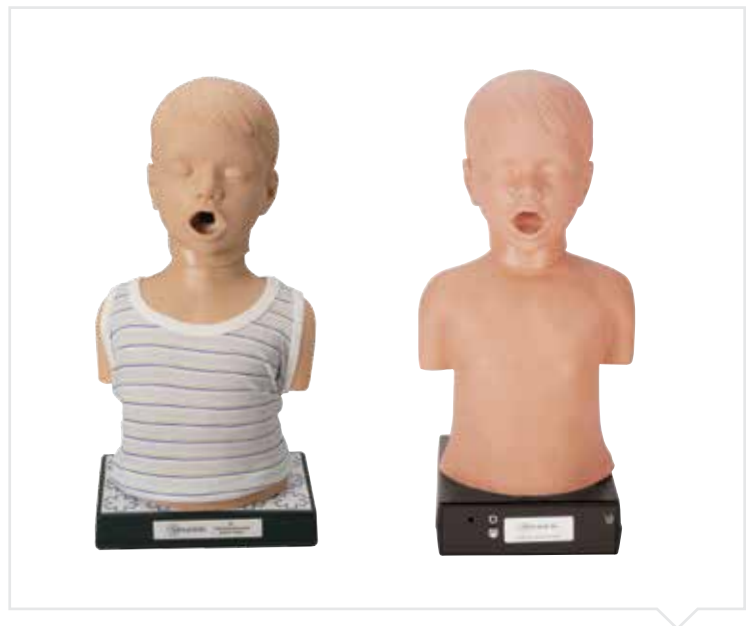
Trainer with Amplifier

M-1018149



### Infant Auscultation Trainer

The Life/form® Infant Auscultation Trainer simulates heart, bowel, and lung conditions selected by the instructor via wireless remote control. The student must palpate to identify the correct auscultation sites and will hear different heart, bowel, and lung sounds as the SmartScope® is moved from site to site. The trainer duplicates human infant conditions as closely as electronic technology allows – it's almost the real thing. The instructor can program the remote control, selecting from two dozen conditions and even switch conditions so students can compare and make a diagnosis. Note: Infant remote and SmartScope® are not compatible with Adult Auscultation Trainer. Includes Infant Auscultation Trainer, SmartScope® remote, and hard carry case. Additional SmartScope® and remote are available.



### Child Heart and Lungs Sound Trainer

This self-contained heart and lung sound generator delivers site-specific heart and lung sounds typical of a four-year old child. Use any stethoscope in the normal auscultation site for paediatric assessment to listen as ten lung speakers and a heart speaker mimic actual sounds. The unit can be run from either a conventional PC using your mouse and monitor, or through the special handheld remote. An external speaker jack allows you to broadcast sounds to the entire classroom, or you can use it for audible testing of more than one student at a time. Classroom broadcasts of speakers/sounds in specific locations allow students to hear precise sound anomalies encountered when they auscultate the manikin. No programming 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.

M-1017237

▶ Visit **3bscientific.com** for a complete list of heart, bowel, and lung sounds! ◀





### Sounds and Arrhythmia Tutor

Two-in-one TUTOR reproduces digitally stored heart and breath sounds or arrhythmias. Perfect for Nursing Schools, EMS Education Programs, Medical Schools and any healthcare settings where sound and rhythm recognition is critical.

These sounds are heard with stethoscopes from Sounders, either the two mounted in the top or from other Sounders or an external speaker. Up to 50 Sounders can be connected at the rear panel jacks. There is a volume control and two LEDs that illuminate during systole as well as an illuminated display showing the example currently playing. Sound Menu items are selected from the 16-panel keypad. Rhythms may be viewed on any monitor or by connection to the Arrhythmia Display Interface. This unique TUTOR allows instructors the flexibility to change menus by changing plug-in modules. Includes 2 stethoscope sounders. Sound menus sold separately.

**M-1017976**

#### Optional Item

Arrhythmia Display Interface **M-1018150**



### Additional Stethoscope Sounders

Additional stethoscope sounders are available to allow multiple students to auscultate at the same time. The sounders link one after another and allow students to listen using their own stethoscopes.

**M-1005892**

▶ For a complete list of sound menus visit us at **3bscientific.com!** ◀

| Sounds                                  | Item No.  |
|---|-----------|
| Basic Heart Sounds                      | M-1018175 |
| Murmurs                                 | M-1018176 |
| Breath Sounds                           | M-1018177 |
| Paediatric Breath Sounds                | M-1018178 |
| Paediatric Heart                        | M-1018179 |
| Rates and Rhythms                       | M-1018181 |
| ACLS - Advanced Cardiac Life Support    | M-1018182 |
| ACLS II - Advanced Cardiac Life Support | M-1018183 |
| CCU/ICU                                 | M-1018184 |
| CCU/ICU II                              | M-1018185 |
| CCU/ICU III                             | M-1018186 |
| Ventricular Waveforms                   | M-1018187 |
| Acute Myo-Infarcts Massive Anterior     | M-1018188 |
| Paced Beats                             | M-1018189 |
| Paediatric PALS                         | M-1018190 |
| Mitral Valve Disease                    | M-1018191 |
| Aortic Regurgitation                    | M-1018192 |
| Congenital Heart Disease                | M-1005891 |
| Cardiomyopathies                        | M-1018193 |
| Mitral Stenosis Moderately Severe       | M-1018194 |



### Heart and Breath Sounds Simulator

Portable and scalable, the TUTOR MS is a hand-held simulator that generates both heart and breath sounds. It is excellent for one-on-one instruction or for groups of up to 15 students. By utilising stethoscope Sounders students can auscultate at the same time or connect a speaker to broadcast the actual patient heart and breath sounds. The TUTOR MS is perfect for any setting where the determination of both heart and breath sounds is important and can be tailored to any situation by toggling between different external menus to meet your needs. In addition, the unit has two lights that illuminate during systole (heart menu) and expiration (breath menu).

Includes 2 stethoscope sounders. Sound Menus sold separately.

**M-1005884**

| Sounds                           | Item No.  |
|----------------------------------|-----------|
| Basic Heart Sounds               | M-1005885 |
| Basic Murmurs                    | M-1005886 |
| Breath Sounds                    | M-1005887 |
| Paediatric Breath & Heart Sounds | M-1005888 |
| Paediatric Heart Sounds          | M-1005889 |
| Infant Heart & Breath Sounds     | M-1005890 |
| Bowel Sounds                     | M-1018195 |



### Ear Examination Simulator

The ear examination simulator consists of a head with 6 interchangeable flexible ears with life-like external and internal structures of the ear. Embedded coloured prints in 5 out of the 6 ears allow the diagnosis of various pathologies. One ear is not coloured, but can be used for earwax removal exercises. 38 x 38 x 26 cm; 7,7 kg

M-1005645

### Supplementary Ears

This set includes 4 ears which allow observation of Chronic otitis media with large perforation, Attic cholesteatoma (A), Attic cholesteatoma (B), and Atelectatic middle ear otitis and tympanosclerosis.

M-1005646



### Life/form® Diagnostic and Procedural Ear Trainer

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. 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. See online for additional product features.

45,7 x 27,9 x 25,4 cm; 5,44 kg

M-1017258

For more chart options see pages 140-145 or visit [3bscientific.com](http://3bscientific.com)

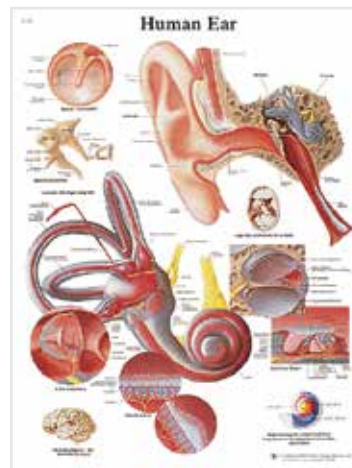


### Pneumatic Otoscopy Kit

This exciting Pneumatic Otoscopy trainer offers an exciting additional feature for the Life/form® Diagnostic and Procedural Ear Trainer (M-1017258). 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 practising 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. 30,5 x 27,9 x 12,7 cm; 1,13 kg

M-1017259



### Human Ear Chart

50 x 67 cm

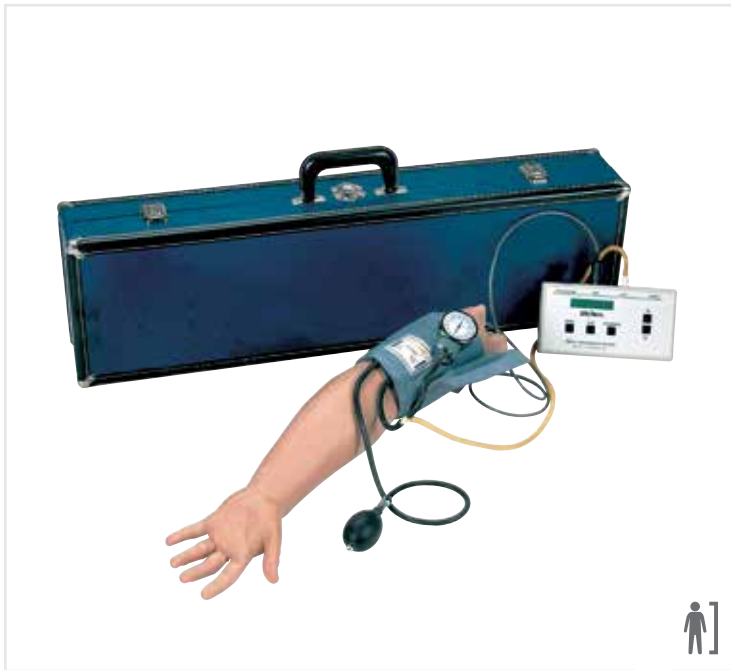
Laminated Paper M-1001486  
M-4006667



### Diseases of the Middle Ear Chart

50 x 67 cm

Laminated Paper M-1001490  
M-4006670



### Deluxe Blood Pressure Arm with Speaker

This life-like simulator allows the presetting of values for both systolic and diastolic pressures. It is possible to audibly discern the five Korotkoff phases. With this realistic unit, the student can find the preset results and the instructor can unfailingly know if the student has performed the procedure accurately. The electronically generated sounds are digitally recorded. Teacher can easily calibrate unit for use with any sphygmomanometer. The Blood Pressure Simulator includes the Life/form® Arm Replica with embedded speaker, sphygmomanometer, electronic control unit (six "AA" batteries included), instruction booklet, and hard carrying case. The simulator does not include a stethoscope.

M-1005623



### Blood Pressure Training System

This left arm connects to adult Patient Care Manikins (if mentioned as an option). Systolic and diastolic pressures, auscultation gap and pulse rate are adjustable. The cuff pressure can be seen on a display. A speaker system with volume control makes the stethoscope sounds audible for large groups. This blood pressure training arm is for use with the M-1005782 and M-1005785.

with Speaker System, 110V  
with Omni and Speakers, 220V

M-1005829  
M-1005830



### Consequences of High Blood Pressure Display

Life-size, three-dimensional, hand-painted models illustrate the various organs that can be affected by high blood pressure. Great for health fairs and health-education promotions. Contained in a convenient, sturdy wooden carrying case. Available in English only. 71 x 69 cm opened.

M-1018277



### Why Blood Pressure Checks Can Save Your Life

Patients and students learn the importance of blood pressure checks when they see these handpainted, 3D models of arteries and this cross section of the brain. Demonstrates the way high blood pressure can silently lead to heart attacks or strokes. Comes with protective felt cover. Available in English only. 22,8 x 30,5 cm

M-1018289





### Wilma Wound Foot™

The newest and most comprehensive model of its kind, moulded from an 80-year old patient for a true-to-life experience when assessing the various wounds. Twenty different conditions are presented on Wilma Wound Foot™ so you can see and understand how they are different.

This model is an effective tool for educating all healthcare professionals and patients in the identification and staging of wounds and their probable etiologies. Routine cleansing and dressing changes can be taught and practised on all the wounds by healthcare providers, patients, families and caregivers.

A great tool for training, competency testing, skills assessment and dressing techniques! See online for the wounds, pressure ulcers and foot abnormalities that are presented on Wilma Wound Foot™ and for full description. 33 x 26,6 x 12,7 cm

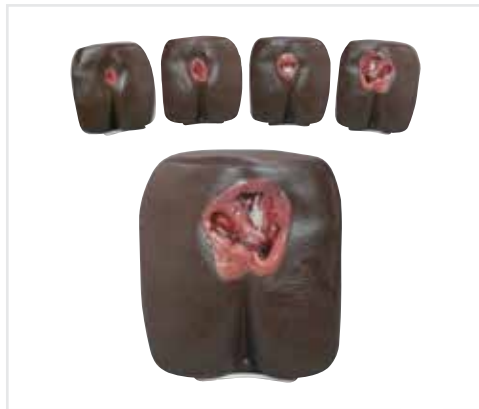
**M-1017978**



### Ostomy Care Simulator

Reproduction of an abdomen showing the anatomy of both a colostomy and ileostomy to provide life-like functions and appearance. Dilatation of the stomas can be demonstrated and practised, 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. 45,5 x 45,5 x 30,5 cm; 211 kg

**M-1005591**



### Life/form® Pressure Ulcer/Bedsore Models

These models illustrate all found wound stages and are used to give instruction on the care and cleaning of the ulcers. The four stages include Stage 1 with its reddening and unbroken skin, Stage 2 with an open wound that is reddened with partial skin loss, Stage 3 with a deep, open wound that reaches through all layers of skin and into the muscle, and Stage 4 which is the most severe and deep with an open wound that reaches through all layers of skin and damages muscle, bone, tendons and joints.

Light Skin M-1017979  
Dark Skin M-1017980



### Seymour II™ Decubitus Treatment Simulator

Displaying the following pressure ulcers\* (NPUAP 2007 - National Pressure Ulcer Advisory Panel): Stage I, Stage II, Stage III with undermining, tunneling, subcutaneous fat and slough, deep Stage IV with exposed bones, undermining, tunneling, subcutaneous fat, eschar and slough. Also shown are a suspected DTI, unstageable full eschar/slough wound, and a dehisced wound. The Stage III and Stage IV are positioned so that a "bridging" dressing for use with a vacuum assisted closure and negative pressure wound therapy devices can be demonstrated and practised.

**M-1009798**



### Life/form® Infant Ostomy Trainer

Created to educate caregivers and parents on how to give special care to an infant with a stoma. The anatomy of the colostomies were carefully reproduced to provide life-like 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. See [3bscientific.com](http://3bscientific.com) for full description.

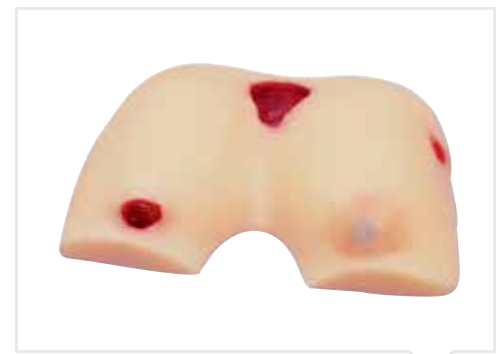
**M-1013059**



### Ostomy Care Model

This BIOlike™ life-size model contains four stomas that can be lubricated and dilated with an inserted finger. The model may be washed, taped, bandaged, and fitted with ostomy bags. Comes with lubricant, draping sheet, and carrying case. 33 x 46 cm

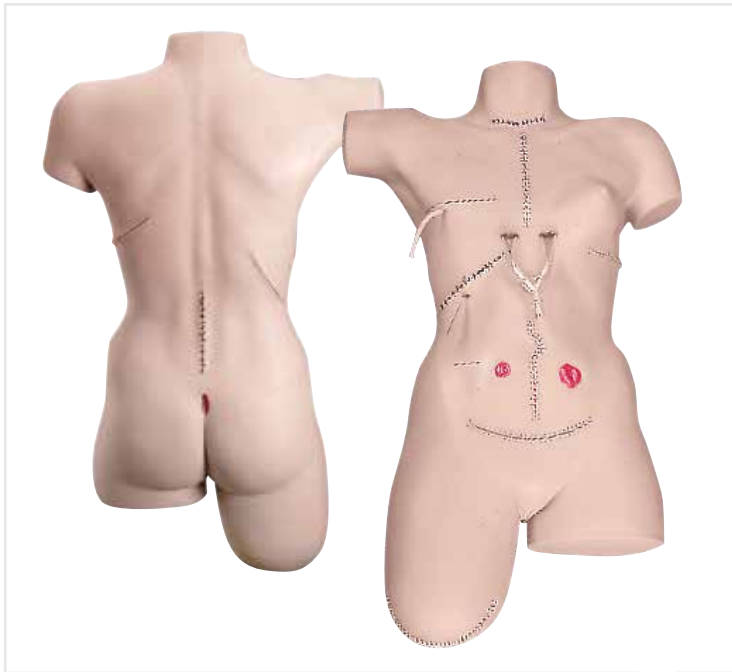
**M-1005570**



### Bedsore Cleaning and Dressing Model

The varying stages of pressure sores on this unique model can be washed, treated with antiseptics or most medicines, and dressed just like real flesh. Made from BIOlike™ synthetic tissue. Comes with carrying case and draping sheet. 24 x 37 x 9 cm

**M-1005569**



### Surgical Sally Bandaging Simulator

A readily available patient with 14 surgical wounds. The skin has been reformulated so it is drier, allowing the bandages to adhere better. Special vinyl formulations have been used to create the most life-like look and feel possible. The flexible, flesh-coloured skin realistically responds to adhesives and all types of bandaging procedures. Wound closures feature surgical staples for the Mid-Sternal Split, Thoracotomy, Nephrectomy, Laparotomy, Abdominal Hysterectomy, and Amputation Stump. Staples and sutures cannot be removed. See online for full description.

84 x 30,5 x 63,5 cm; 11 kg

M-1005590



### Suture and Stapling Pratise Trainers

Made with a soft vinyl skin over a core of stitchable foam to provide a life-like suturing experience for students or a realistic suturing demonstration by an instructor. Soft and pliable for easy sewing, the skin is tough enough that sutures will not pull out when tightened. The unit is provided with three "wounds." These can be sutured repeatedly until the skin around them is finally worn out; then, new can be cut. Conservatively, more than one hundred cuts can be made on the trainer and each of these cuts can be sutured several times.

- Realistic skin texture with wrinkles, pores, and visible finger prints
- Disposable limbs provide hundreds of suturing experiences before wearing out
- Trainer comes complete with a starter package of sutures, instruction booklet

Pratise Arm M-1005585

Pratise Leg M-1005683



### Life/form® Interactive Suture Trainer

The trainer attaches easily to a person's or manikin's arm, leg, or hip, allowing practise of suturing techniques in addition to essential communication and patient interaction skills. This convenient, cost-effective kit offers practise at all skill levels, including tying knots, placement of staples, and suturing both superficial and deep wounds. By making their own incisions, the instructor or student is able to determine the depth of suturing and the proper technique to be used. Wounds automatically open when cut. Includes suture pad, attachable pad base with straps, needle holder, suture scissors, tissue forceps, scalpel, soft carrying case, nylon suture, instrument case and instruction manual. Pad in base measures 17,8 x 7,6 x 10,1 cm

M-1018196



### Life/form® Suture Kit

The instructor or student will have the ability to make incisions and determine the depth of suturing and the technique to be used. Practise and demonstrate tying knots, stapling and placement of staples, use of surgical glue, suturing deep tissue, and suturing subcutaneous tissue.

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 carrying case, needle holder, suture scissors, tissue forceps, scalpel, nylon suture and small case to hold the instruments. Pad measures 15,2 x 10,1 x 3,8 cm

M-1017981



### Stump Bandaging Simulators

Pratise and demonstrate standard bandaging procedures as well as the attachment of prosthetic devices. Instruction booklet included.

#### Lower Stump Bandaging Simulator

One leg is amputated below the knee, the other at mid-thigh. The torso is long enough to allow bandaging around the body over the uninjured hip at the level of iliac crest.

M-1005681

#### Upper Stump Bandaging Simulator

The upper torso has two arms – one amputated above the elbow, the other above the wrist. Both arms are slightly extended to facilitate bandaging.

M-1005680

#### Set of 2 Stump Bandaging Simulators

M-1005682



### Transparent Male & Female Catheter Models

This transparent model allows viewing and practise of the proper insertion, position, and inflation of a balloon catheter. When practising catheter insertion, you will experience resistance and pressure as you would with an actual patient. Urine (water) actually flows when catheter is inserted properly. External genitalia is made of a special soft material to simulate real tissue. Comes with irrigator, irrigator stand, and case.

Female Catheter M-1017242  
 Male Catheter M-1017241



### Infant Male & Female Catheterisation Trainer

The **Life/form®** Infant Male and Female Catheterisation Trainer is an inexpensive 2-in-1 trainer that provides realistic practise of this difficult skills procedure. Includes: infant manikin, one male and one female genital insert, 59 ml lubricant, infant Foley catheter, and instruction manual.

- Practise insertion, position, catheter balloon inflation and deflation
- Feel resistance and pressure as with a real patient
- Urine flows when catheter is in proper position
- Replaceable male and female genitals

M-1013060



### Male & Female Catheterisation Set

Pratise male and female urinary catheterisation on these newly designed anatomically correct models. Training is enhanced by a new material that has a realistic feel and flexibility. Both models utilise a 16 FR catheter and can be used to demonstrate balloon inflation procedures. A fluid reservoir allows for urine output upon successful completion of the insertion procedure. Instructors are able to teach sterile technique and insertion and removal of catheter, as well as practise preparing the patient for the procedure.

Set M-1017251  
 Male only M-1017252  
 Female only M-1017253



### Enema Administration Simulator

Each student can realistically practise administering an enema using this life-like model. The upper buttock is flexible so that the trainee must raise the buttock in order to locate and make insertion into the anus. The simulator features a one quart fluid reservoir that is adequate for most demonstration and practise purposes. For large groups, a drain tube is provided so that the fluid can be drained directly into a large container or sink for continuous use. 1 year warranty.

- No special equipment required
- Life-like in every detail
- Portable and easy to keep clean
- Includes a hard carrying case, enema administration set, and teaching guide

M-1005626





### A. Female Cath-Ed II Simulator

The Cath-Ed II provides practise in female catheterisation. Including most of the same features as the Male Cath Ed I Simulator except the vulva has been moulded intact to facilitate identifying the urethra and proper spreading of the labia. Comes with a hard carrying case, lubricant, catheters, 50 cc bulb, syringe, and instruction manual.

*Note: Dover Products was the original sponsor for these products.*

**M-1017982**

### B. Male Cath-Ed I Simulator

This unique Life/form® simulator combines visual and tactile learning sensations of catheterisation in one compact unit. The mid-sagittal dissections allow detailed study of the internal anatomy and provide students an opportunity to follow what happens when they catheterise a patient. The removable plastic cover identifies key anatomical structures. With practise on Cath-Ed 1 Male Simulator, normal restrictions at the bulbous urethra and bladder sphincter can be detected and identified. A Foley catheter can be demonstrated and seen through the viewing port. Includes a hard carrying case, lubricant, one catheter, 50 cc bulb, syringe, and instruction manual. This simulator does not have a functional bladder.

**M-1017983**

#### Replacement Parts

10 Urethral Catheters, CH16  
Lubricant, 250 ml

**M-1005612**

**M-1008575**



### Advanced Patient Care Male & Female Catheterisation Simulator

Considered fundamental in all nursing studies, the delicacy and intricacy of catheterisation mandates training on a simulator to ensure patient comfort and student confidence.

#### Features:

- Male and Female lower torso with realistic parts
- Normal size prostate gland for palpation during rectal examination
- Internal and external bladder reservoir for standard catheterisation exercises
- Functional suprapubic stoma to practise skin prep, stoma hygiene, and application of disposable and permanent ostomy bags
- Modular urethral valve prevents fluid leakage

Male **M-1017545**

Female **M-1017544**

### Male & Female Catheterisation & Ostomy Care Simulator (not shown)

This "two-in-one" simulator allows:

- Catheterisation: The interchangeable male and female genital organs feature a modular urethral valve to prevent fluid leakage
- Ostomy care: 3 stomas (transverse colostomy, ileostomy, suprapubic) may be dilated and allow practise of irrigation procedures as well as application of ostomy bags
- Each stoma is connected to an internal tank. Supplied with carrying bag

**M-1005806**



### Male & Female Catheterisation Simulator

Use these simulators to train the procedure of catheterisation. Its realistic feel and resistance, and the high quality of the material make for a perfect teaching tool. For a better learning effect, artificial urine (water) will flow when the catheter enters the bladder.

Male **M-1005587**

Female **M-1005588**



### Heart Catheterisation Simulator

This simulator is ideal for practising central venous catheterisation. All appropriate landmarks are palpable for realistic identification of insertion sites. Remove skin to reveal location of veins, arteries, and other landmarks. Artificial blood flows from needle to provide confirmation of proper needle location. Venous catheters can be snaked into place once the introducer is properly inserted. Includes fluid supply bags, replaceable skin, tubing sealant, needles, one quart of blood, and teaching guide in a hard carry case. Fluid supply stand not included.

180,6 x 109,7 x 64,5 cm

**M-1017260**



### Paediatric Nurse Training Newborn

This advanced and incredibly realistic model with male and female features includes internal organs (heart, lung, intestine system, stomach, and bladder), interchangeable genital organs and fully movable head, arms and legs. It allows the trainees to easily practise tracheotomy care, male and female catheterisation, enema insertion, injections (femoral, gluteal I.M. and subcutaneous). See online for full description and accessories. 52 cm; 2,3 kg

**M-1000505**

#### Optional Equipment

Injection Pads for thigh and hip

**M-4000162**

### Life/form® Micro-Premie Simulator

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. See online for full description and functionalities

Light Skin **M-1017238**

Dark Skin **M-1018197**



### Nurse Training Infant

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 simulator was developed for a wide range of educational training, including beginning nursing students.

#### Procedures that can be practised include:

- Tracheostomy care (lavage and suctioning)
- Gastrostomy cares (lavage and gavage)
- Nasogastric care (placement, lavage, gavage, and suctioning)
- Urethra catheterisation (insertion, placement, and care)
- Colostomy stoma (basic care purposes only)

Female **M-1018099**

Male **M-1018198**



### Mike® and Michelle® One Year Paediatric Care Simulator

By simulating a one-year old with rotatable arms and legs (jointed elbows and knees) and articulating head, this manikin allows training of basic and advanced paediatric patient care procedures. Supplied with t-shirt, shorts, neck brace and carrying bag. 89 x 38 x 22,5 cm; 5 kg

#### Practise these techniques:

- Bathing and bandaging activity
- Intramuscular injection sites in left deltoid and right upper thigh
- Interchangeable male organ
- Tracheotomy opening
- Male and female catheterisation
- Removable internal tanks
- Enema administration

**M-1005804**

#### Optional Parts

I.V. Injection Arm **M-1005795**



### Newborn Patient Care Baby

This manikin simulates a 0-8 week old newborn with rotatable soft arms and legs. Supplied with T-Shirt, diaper and carrying bag. It allows training of basic and advanced paediatric patient care procedures such as:

- Bathing and bandaging
- Tube feeding and gastric suction (movable tongue)
- Heel stick and finger prick practise
- Male and female catheterisation
- Enema administration

M-1005802

**NEW**



### Internal Fetal Monitor Trainer

This life-like 3D trainer provides realistic simulation for proper insertion of an internal electrode for foetal heart monitoring. This three-dimensional model includes the foetal head, lower uterine segment, and cervix made from lifelike materials. The foetal model is encased in a durable plastic case which allows for easy visualisation of parts. The foetal head can also be removed to practise foetal spiral electrode application while visualising the procedure. Also includes one model of cervical dilatation depicting 4 cm of dilatation. All parts are easily removed for washing. Includes lubricant, instructions, and nylon carry case. 14 x 12,7 x 21,6 cm; 3,63 kg

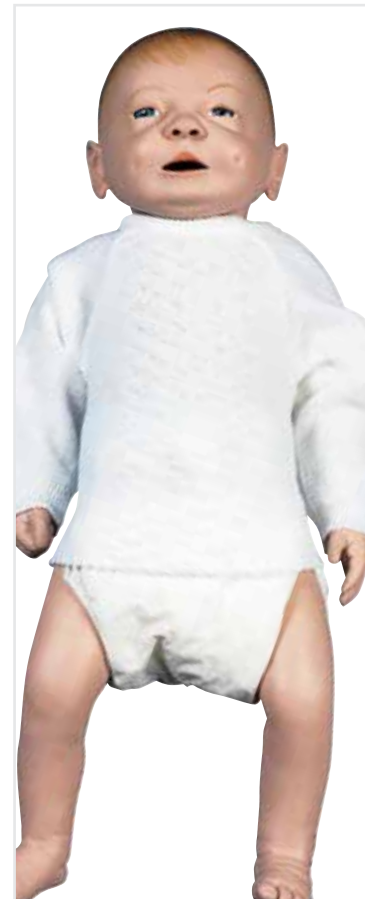
M-1017263



### Male Baby Care Model

This baby boy will never lose its patience. Parents-to-be or the baby care trainee can perform bathing, changing, dressing and feeding simulation until these techniques are mastered. Very useful for pre-birth courses! 52 cm; 2,3 kg

M-1000506







#### Mike® and Michelle® CPR and Trauma Care Simulator (5 years)

The Mike and Michelle five (5) year CPR and trauma care simulator is an excellent training tool for basic life support. This simulator permits student and teacher to practise CPR as well as emergency medical treatment on an accurate representation of the school-age child. 119,5 x 43,5 x 20,5 cm; 10,5 kg

M-1017539

▶ See all product details at [3bscientific.com](http://3bscientific.com)! ◀



#### Mike® and Michelle® Child Patient Care Manikin

This manikin simulates a five-year old child with rotatable arms and legs (jointed elbows and knees) and articulating head. Supplied with T-Shirt, shorts, neck brace and carrying bag. It allows training of basic and advanced paediatric patient care procedures such as:

- Bathing and bandaging
- Ophthalmic exercises
- Oral and dental hygiene (articulating jaw with teeth and tongue)
- Tube feeding and gastric suction
- I.M. injection (upper thigh and deltoid)
- Tracheotomy care
- Male and female catheterisation
- Enema administration

M-1005808



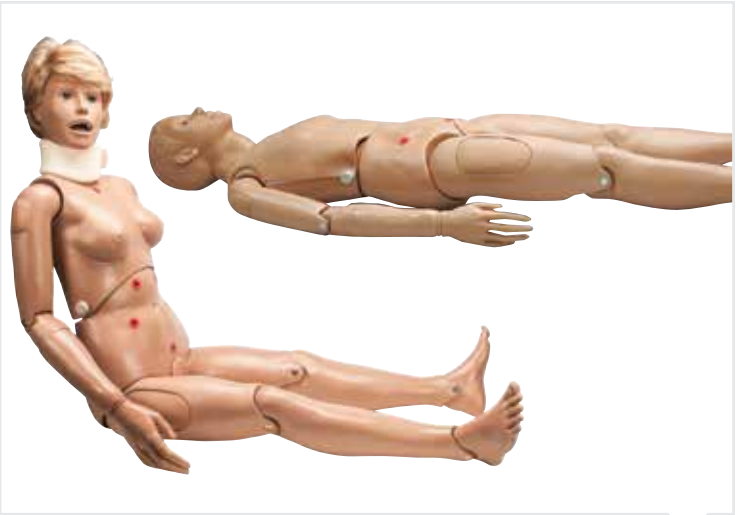


### Code Blue I Multipurpose Patient Care and BLS Manikin

This adult manikin features training of basic and advanced patient care as well as Basic Life Support functions. The legs can be removed for compact storage. Supplied with neck brace. Visit [3bscientific.com](http://3bscientific.com) for full details.

- Hair care and surgical draping
- Bathing and bandaging
- Oral and dental hygiene (movable jaw with removable dentures)
- Ophthalmic care
- Ear irrigation and application of otic drops
- I.m. injection (arm and buttock)
- CPR Monitor: displays cadence and depth of compression and ventilation

**M-1005782**



### Basic Patient Care Manikin, Male and Female

Full-size adult manikin with movable joints and soft fingers and toes for training of important basic nursing skills such as:

- Hair care and surgical draping
- Bathing and bandaging
- Oral and dental hygiene (movable jaw with removable dentures)
- Ophthalmic care
- Ear irrigation and application of otic drops
- I.m. injection (arm and buttock)

The legs can be removed for compact storage. Supplied with neck brace.

**Female M-1005803**  
**Male M-1005807**



### Susie Simon® Patient Care Simulator with Ostomy

Full-size adult manikin with jointed elbows, wrists, knees and ankles. Soft, realistic hands, feet, fingers, toes and face skin. See online for full description. 162,6 x 45,7 cm; 16,5 kg

- Removable upper and lower dentures for oral hygiene
- Realistic eyes for ophthalmic exercises
- Ear canal or otic drops and irrigation
- Mouth, nose, and tracheotomy openings for nasogastric lavage and gavage
- Interchangeable male organ
- Intramuscular injection site in right and left upper arm and buttock
- Enema administration capability
- Realistic urethral passage and bladder for catheterisation exercises
- Vaginal douching and pap smear exercises
- Sculpted stomas of a transverse colostomy, ileostomy, and suprapubic stoma
- Bathing and bandaging activity

**M-1005785**

#### Replacement Parts

Arm Injection Site **M-1005786**

#### Optional Equipment

Buttock Injection Site **M-1005787**

Carrying Bag **M-1005788**



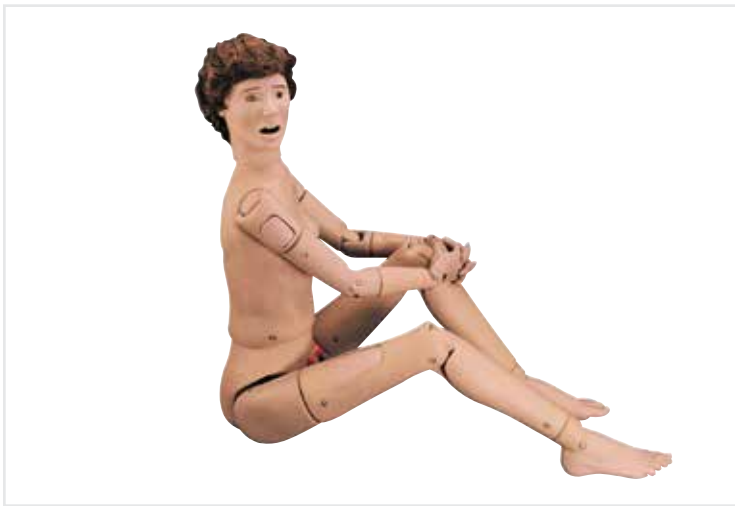
### Geriatric Patient Care

The Advanced GERi™ Manikin simulates over 35 nursing and medical procedures. Ideal for OBRA Required Training. Life/form® 3-year warranty. Carry case not included. 95,5 x 52 x 28 cm; 16,4 kg

#### Features:

- Right IV Training Arm with a shoulder intramuscular injection site featuring replaceable skin and veins that roll when palpated; realistic flashback confirms proper needle placement
- Left Blood Pressure Training Arm that reproduces all five Korotkoff sounds and allows the instructor to vary systolic and diastolic levels, pulse rate, volume, and auscultatory gap
- Standard arms with right and left shoulder intramuscular injection sites

**M-1005606**



**KERi™ Complete Nursing Skills Manikin**

The KERi™ Nursing Skills Manikin uses Life/form® moulding and modeling techniques to provide an unusually realistic appearance without being age-specific. Life/form® simulations have been included in KERi™ to allow the practise of more than 35 patient care procedures. See online for full description.

M-1013742

**Basic Geri™ Nursing Skills Elderly-Care Manikin**

For the economy-minded program that still wants the best! The basic Geri™ Manikin provides all the regular features of the Geri™ Complete Manikin, except internal fluid reservoirs have been eliminated for greater economy. Urinary catheterisation cannot be performed on the Basic Geri™. 94 x 52 x 28 cm; 10 kg

M-1005620

**Geri™ Nursing Skills Elderly-Care Manikin**

This nursing manikin features an elderly appearance and is convertible between male and female. Besides basic nursing skills this manikin also allows the practise of male and female catheterisation. Skin wrinkles, reddened skin fold, a dilated pupil, a stage I decubitus sacral ulcer, a normal mole and a cancerous mole are represented. The neck and all major joints are fully movable into any natural human position. Hands and feet are made of soft, flexible material for added realism. Meets all OBRA (Omnibus Budget Reconciliation Act) requirements. Delivered in storage carton. 94 x 52 x 28 cm; 12 kg

M-1005597



**Expand your Geri™ and KERi™ training!**

**Nursing Care Wound Kit for Geri™/KERi™ Nursing Manikins**

This wound kit offers a highly detailed variety of disease, pressure and surgically induced wounds to assist practitioners in understanding the treatment of their patients. The kit comes with a spray container of odours including sweat and vomit. See online for full moulage & accessory kit components.

M-1017984

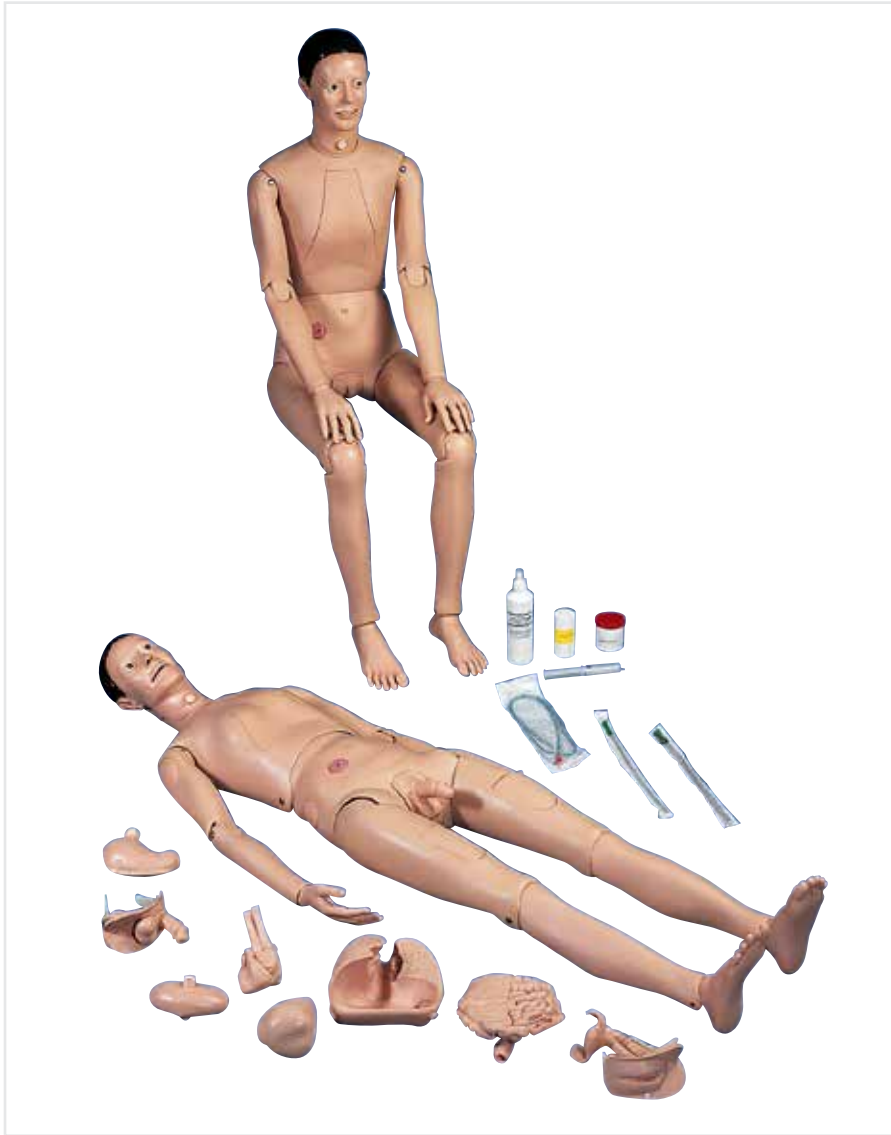


**Geri™ and KERi™ Optional Pressure Ulcer Foot**

The Life/form® Geri™/KERi™ Optional Pressure Ulcer Foot is great at reinforcing that pressure ulcers are more likely to appear on pressure points such as heels, tips of toes, between toes, or anywhere the bones may protrude and rub against socks, shoes, or bed sheets. The pressure ulcer foot contains all four severities of stages 1-4. Easily attaches to any Geri™ or KERi™ Patient Care Manikin and includes an instruction key card.

M-1017985





### 3B Scientific® Patient Care Manikin

The bestselling patient care simulator allows practise of most procedures from basic and advanced nursing, to clinical and emergency skills. Made of durable, unbreakable, water-resistant plastics, it is also flexible, allowing natural movement of the arms, legs and joints. Internal organs are removable and fitted with drainage seals for easy cleaning. Bladder and intestinal section are watertight and connected to the external genitalia to allow catheterisation. Six special injection pads allow repeated injections and years of use. Also included is an amputation stump to practise dressing techniques. 174 cm; 15 kg

**Included is:**

intestine tube, catheter, duodenal probe, talcum powder, Vaseline, and lubricant.

**The only manikin you need to teach and practise:**

- Personal hygiene, cleaning (removable partial prosthesis)
- Lifting, mobilization
- Bandaging and wound dressing (including stump dressing)
- Irrigations (eye, ear, nose, stomach, intestine, bladder)
- Injections (intramuscular and subcutaneous)
- Nasogastric lavage and gavage
- Oxygen treatment, artificial respiration
- Tracheotomy care
- Catheterisation (male and female)
- Ostomy care (colostomy)
- Enema administration

**M-1000502**

**Replacement Parts**

**Work Set M-4000147**

- Vaseline
- Talcum Powder
- 1 Duodenal tube
- 1 Single-use catheter CH 14
- 1 Rectal tube CH 28
- 250 ml Lubricant
- Replacement seals and screws



### 3B Scientific® Patient Care Manikin, II

Our best-selling patient care simulator M-1000502 is also available in a basic version without internal organs and is primarily designed for geriatric care and basic patient nursing. All procedures described above can be practised except nasogastric lavage and gavage, internal irrigations, ostomy care, catheterisation, and enema administration. 174 cm; 14.4 kg

**M-1000503**

**Upgrade Kit for M-1000503**

**M-1000504**

Easily converts the M-1000503 Basic Patient Care Manikin into the M-1000502 Deluxe version.



**Decubitus Ulcers**

50 x 67 cm

Laminated M-1001606

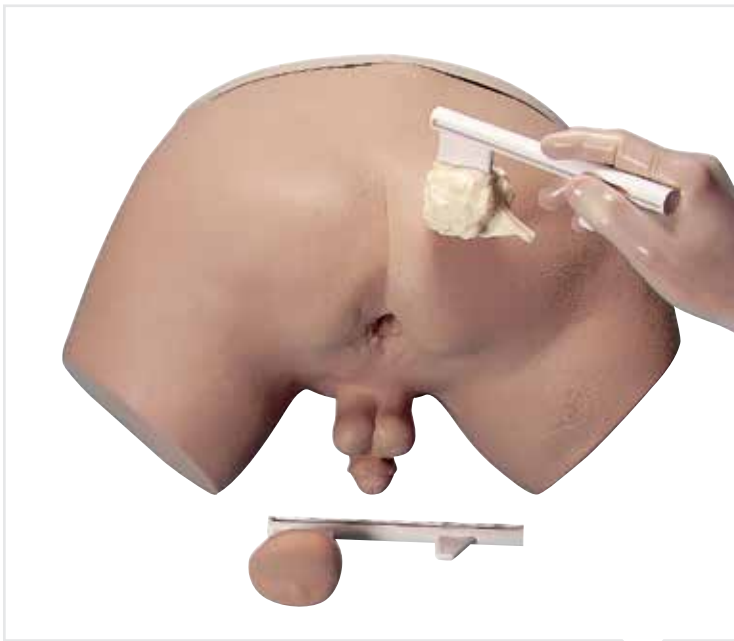
Paper M-4006720

**Rheumatism**

50 x 67 cm

Laminated M-1001472

Paper M-4006655



### Prostate Examination Simulator

This prostate exam simulator consists of a male abdomen body and 4 different interchangeable prostate glands which can be inserted to allow realistic practise in diagnosis of prostate cancer by rectal examination. Comes complete with four glands, hard carrying case, lubricant, cleaner, and teaching guide. 54,5 x 38 x 30,5 cm; 11 kg

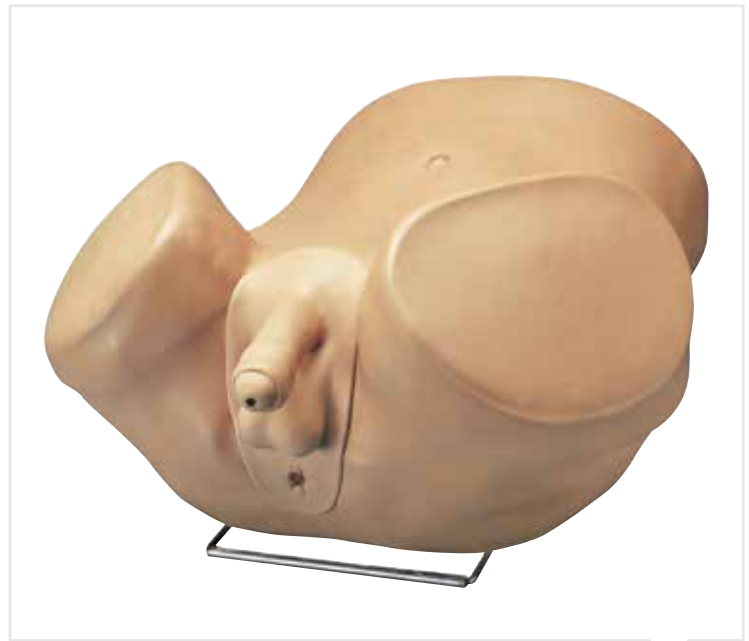
**Stage A Gland:** Benign, slightly enlarged, but otherwise normal prostate gland.

**Stage B Gland:** A discrete, hard nodule is palpable in the upper right quadrant, simulating a beginning stage of carcinoma.

**Stage C Gland:** The spread of carcinoma is demonstrated in this gland. The small nodule has increased in size and has become an external hard mass on the surface of the gland.

**Stage D Gland:** This gland is totally replaced with carcinoma. The entire gland will feel hard and irregular.

M-1005594

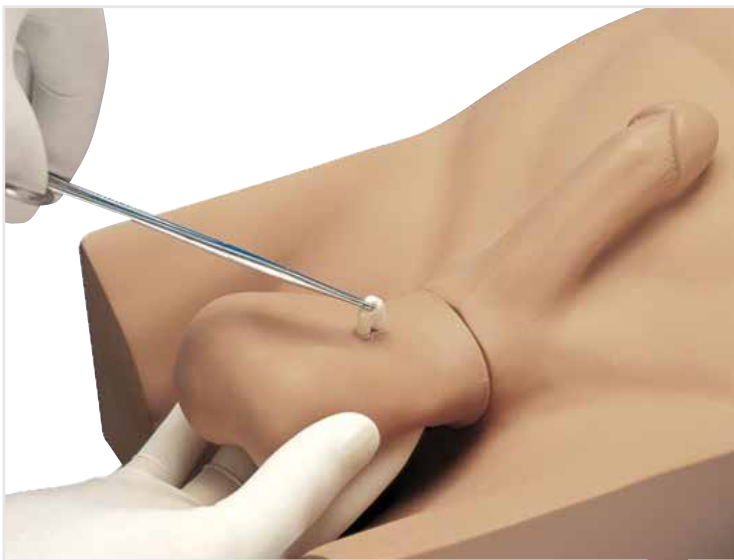


### Advanced Patient Care Male Prostate Simulator

#### Features:

- Realistic anal opening permits insertion of a lubricated, gloved finger
- Four interchangeable modules depicting a moderately enlarged benign prostate, a prostate with two discreet nodules, a prostate with an easily palpable large mass, and a prostate with malignant invasive cancer
- Prostates individually mounted on clear plastic cards for easy placement and removal
- Instruction manual
- Soft carrying bag

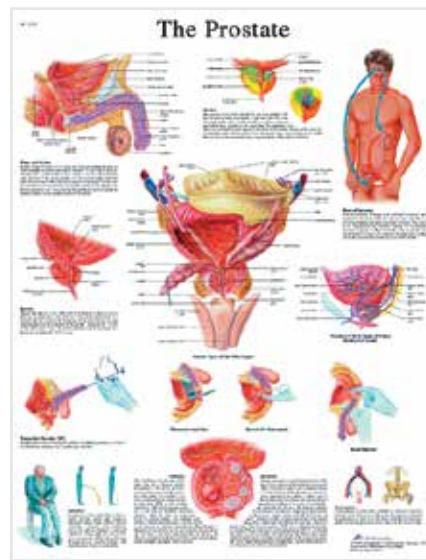
M-1013902



### 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. Includes two removable scrotal skins and two testicles, two long vas assemblies that can be advanced as needed for NSV exercises, and instructions for use. 30,5 x 30,5 x 31,8 cm; 2,25 kg

M-1017240



### Prostate Gland Chart

50 x 67 cm

Laminated M-1001534  
Paper M-4006700

▶ More charts available online at [3bscientific.com](http://3bscientific.com) ◀



## Demonstrate & Practise Multiple Procedures

### ZOE® Gynaecologic Simulator

Designed by physicians for physicians and healthcare providers. Simulator represents a female adult lower body with relevant internal anatomical landmarks and anatomically accurate fimbriae and ovaries. The Gynaecologic Exam Simulator combines and delivers the ability to demonstrate multiple gynaecologic procedures, practise laparoscopic examination and mini-laparotomy, recognition of pathologies, and placement of contraceptive devices. Talcum powder, lubricant and soft nylon carrying bag. 51 x 46 x 25,5 cm; 8,5 kg

#### Features:

- Vaginal speculum and bi-manual pelvic examination
- Uterine sounding
- Insertion and removal of contraceptive devices such as IUD, 75mm diaphragm, or female condom
- Laparoscopic visualisation and occlusion of fallopian tubes
- Mini-laparotomy

**Note:** The image shows an opened model to make the inner structures visible. The model is supplied with a closed abdomen.

**M-1005797**

#### Optional Equipment

|  |                  |
|--|------------------|
| 7 Uteri – Normal with External Pathologies | <b>M-1005798</b> |
| 7 Uteri – Normal with Internal Pathologies | <b>M-1005799</b> |
| Postpartum Uterus                          | <b>M-1005812</b> |
| 2 Early Pregnant Uteri                     | <b>M-1005813</b> |



### EVA Gynaecologic Trainer

A life-like female pelvis for developing diagnostic skills in gynaecologic procedures, anatomical instruction, abdominal palpation, and speculum instruction. EVA allows the comprehensive, stress-free introduction of gynaecological 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, EVA provides detailed, life-like anatomical features and references. Manikin comes with instruction sheet and soft nylon bag. 3-year warranty. 30,5 x 33 x 33 cm; 4 kg

- Normal cervix and uterus for IUD insertion and removal
- Normal parous cervix
- Cervix with endocervical polyp
- Cervix with ectropion characteristics
- Cervix with neoplasia (carcinoma)
- Pregnant 10 week uterus
- 2 adnexal masses

**M-1005723**



### GYN/AID® Gynaecologic Simulator

This simulator represents a female adult's lower body with soft outer skin as well as anatomically accurate fimbriae and ovaries. Various pelvic examinations including recognition of pathologies and placing of contraceptive devices can be trained. 51 x 46 x 25.5 cm; 8,5 kg

#### Features:

- Vaginal speculum and bi-manual pelvic examination
- Uterine sounding
- Insertion and removal of contraceptive devices such as IUD, diaphragm, cervical cap, contraceptive sponge or female condom

**The simulator is supplied with normal and abnormal cervixes and uteri which can be easily changed:**

- 1 normal anteverted uterus with transparent top and round ligaments
- 1 normal uterus
- 6 uteri with external pathologies
- 2 normal cervixes with patent as for IUD insertion removal
- 6 cervixes with pathologies

**M-1005789**





### Pelvic Examination Simulator Set

The Set includes two simulators with identical outward appearance. 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 tumour, 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 tumour and masses have realistic texture and are placed to ensure anatomical accuracy.

The Pelvic Examination Simulator Set includes two simulators ("normal" and "abnormal"), instruction manual, lubricant, glove, and two hard carrying cases. 3-year warranty.

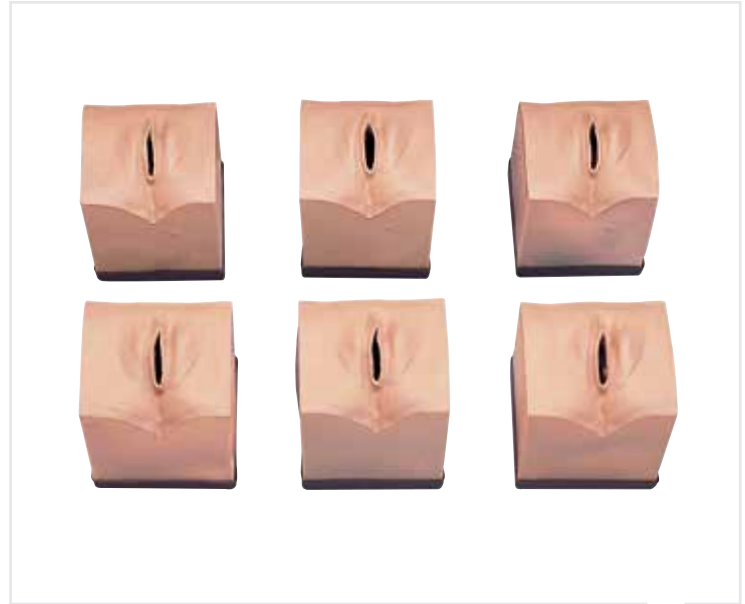
**M-1017850**

**Normal Pelvic Examination Simulator Only**

**M-1018328**

**Abnormal Pelvic Examination Simulator Only**

**M-1018329**



### New realistic material!

#### Cervical Examination Simulator

This birthing simulator consists of 6 anatomical pelvic blocks which are ideal to teach, demonstrate and practise cervical examination prior to birth. Although externally identical, the internal textures, tissue densities and correct anatomical sizes are carefully represented to provide the most realistic female genital condition possible. This anatomical model is a great addition to any lesson about the process of birth, including gynaecological training. The simulator is delivered with teaching guide and storage case.

**The following stages of the cervix during birth are represented:**

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

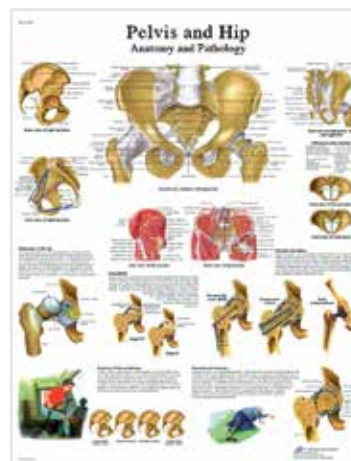
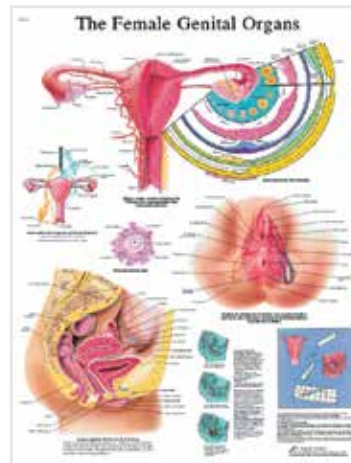
**M-1005599**



### Vaginal Examination Simulator

This state-of-the-art patient care simulator is ideal for training in vaginal examination, bi-manual pelvic examination, IUD insertion techniques, and viewing cervical normality vs. abnormalities. The Vaginal Examination Simulator includes seven normal and abnormal uteri, one normal uterus with six detachable cervical replicas, two uteri for IUD introduction, two spare internal tanks, stomach cover, lubricant, and carrying bag. Simulator is also available in black skin tone on a special-order basis.

**M-1017986**



### Charts

50 x 67 cm

**Female Genital Organs**  
Laminated M-1001536  
Paper M-4006685

**Female Pelvic Musculature & Incontinence**  
Laminated M-1001538  
Paper M-4006686

**Pelvis and Hip**  
Laminated M-1001478  
Paper M-4006656



### Childbirth Simulator

A perfect model to teach and practise diagnostic and therapeutic manipulation before and during the birth. A female pelvis with covered belly cavity, removable vulva and a foetus. Delivered on baseboard. 30 x 55 x 55 cm; 6 kg

M-1001260

**Advanced technology for medical education!**



### Foetal Monitoring and Labour Progress Model Set

This versatile model provides a life-like simulation for performance of vaginal examinations, application of the foetal spiral electrode and intrauterine pressure catheter, assessing dilation, palpating foetal fontanelles and suture lines, and assessing position of the vertex. This 3D model includes the foetal head, lower uterine segment, and cervix made from life-like materials. The foetal model is encased in a durable plastic case which allows for easy visualisation of parts. The foetal head can also be removed to practise foetal spiral electrode application while visualizing the procedure. All parts are easily removed for washing. A practise/resource guide is included with directions for use. Comes with carrying case. 34 x 16 x 29 cm; 4.8 kg

#### This life-like 3D model includes:

- Foetal head
- Lower uterine segment
- Foetal Buttocks
- Cervix
- Five Labour progress components

M-1005579



### Life-like Childbirth Simulator

This life-like simulator gives your trainees practise in normal vaginal delivery as well as procedures for breech and vertex presentation. The simulator contains two interchangeable abdominal overlays – one containing an additional foetus in a simulated amniotic fluid sac for practising Leopold's manoeuvre, the other being transparent to allow a view of the foetal position. 53.5 x 33 x 43 cm; 9 kg

#### Features:

- Anatomically correct female pelvis with representation of internal landmarks such as spinal column, angled birth canal, ileum, ischium, sacrum, sacro spinous ligaments and greater sciatic notch
- Full term foetus with fontanelles and cranial sutures
- Placenta with six disposable umbilical cords and clamps
- Easily replaceable spare vulva
- Simulated blood powder
- Soft carrying bag

M-1000002

#### Required item

Full Term Newborn for Forceps Delivery

M-1005718

**NEW**



### Maternal and Neonatal Birthing Torso

This comprehensive teaching system combines the best of our patient care simulators with the Advanced Childbirth simulator. It is designed to provide a complete birthing experience before, during and after delivery.

- Full size upper and lower female torso
- Removable stomach cover
- One articulating birthing baby with umbilical cord and placenta
- Automatic birthing system that rotates baby as it moves through the birth canal
- Measure head descent and cervical dilation
- Multiple placenta positions
- Replaceable dilating cervixes
- Practise postpartum suturing on vulval inserts
- Practise Leopold Manoeuvres

M-1015567



### New material makes it even more realistic!

#### Episiotomy Suturing Simulator

A realistic way for students to learn good surgical techniques without time constraints or concern for patient safety. The life-like texture allows the student to develop a “feel” for instrument handling, tension on suture, and the right method of tying knots. Simulators can be used by the student in a learning lab with an instructor, or by the student alone in the clinical setting just prior to patient experience. The set includes three episiotomies and is delivered in a storage case with instruction booklet. 20 x 15 x 7 cm; 1,5 kg

- 3 Episiotomy Simulators: Midline, left mediolateral, right mediolateral
- Highly portable

M-1005627



### Perineal Laceration Kit

This obstetrical simulator offers an unprecedented opportunity for students to master the techniques needed to repair most common birth injuries. By making their own incision into the soft, life-like pad, students and instructors can create a traditional episiotomy or nearly any type of first- through fourth-degree lacerations. Embedded within the tissue are discreet structures representing the bulbocavernosus muscle, transverse perineal muscle, and external anal sphincter. These muscles can be cut and repaired individually just as they would be in a real patient. Don't be fooled by its incredible soft, realistic feel; the simulated tissue will remain tough and resilient through many training sessions. A fully adjustable stand holds the pad and moulded base at any angle. The Perineal Laceration Training Kit includes soft pad with moulded base, adjustable stand, dissection instruments in fold-over case, one suture with curved needle, and a soft carrying case. Replacement pads available.

M-1013817



### Labour Delivery Module

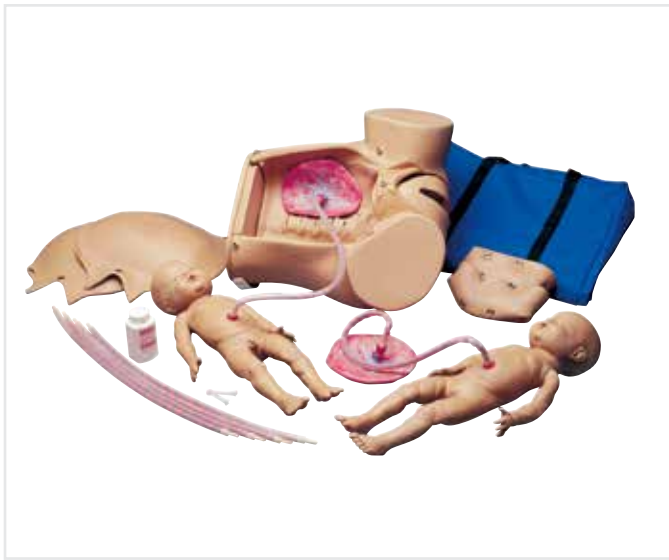
The 6 labour stations represent conditions of the cervix and vagina prior to labour, during labour, and at birth in a primigravid woman. Delivered with carrying case. 52 x 34,3 x 16,5 cm; 0,5 kg

#### Stations illustrated are:

- Station -5: Prior to onset of labour
- Station -4: Cervix partially effaced
- Station -3: Cervix fully effaced
- Station 0: Foetal head at plane of ischial spine
- Station +2: Cervix nearing full dilation
- Station +5: Crowning of foetal head

M-1005824





## ► Bestseller

### Advanced Childbirth Simulator

An outstanding training model for medical students to build confidence and practise in childbirth. This versatile simulator is used worldwide by healthcare educators. It not only provides an excellent simulation of the normal delivery experience for the student and educator, but also provides instruction in abnormal and multiple deliveries. Used in medical schools, doctor offices, clinics and even legal presentations. 25,4 x 25,4 x 25,4 cm; 1,8 kg

#### Demonstrate the following obstetric procedures:

- Normal vaginal delivery
- Complete, frank, and footling breech birth
- C-section delivery
- Ritgen's manoeuvre
- Episiotomy
- Vertex presentation
- Intrauterine manipulation
- Vertex/vertex, vertex/breech, breech/vertex, or breech/breech presentation in multiple birth
- Prolapse of umbilical cord
- Demonstration of placenta previa: total, partial, and marginal
- Normal delivery of umbilical cord and placenta
- Palpation of foetal fontanel's
- Simulated suction of nose and mouth

#### Features:

- Removable diaphragm end plate for manual positioning of foetal baby/babies
- Removable stomach cover for positioning foetus
- Life-size pelvic cavity with major anatomic landmarks
- Hand-painted outline of the bony pelvis
- Three soft vulval inserts for episiotomy exercises
- One baby boy and one baby girl, each with umbilical cord and placenta
- Anatomically accurate backbone and fontanel's on foetal baby/babies
- One skin-tone stomach cover; one transparent stomach cover
- Four extra umbilical cords
- Two umbilical clamps
- Talcum powder
- Instruction manual
- Soft nylon carrying bag

**M-1005790**

### Optional Equipment Palpation Model for Leopold Manoeuvres

Full-term foetal baby with palpable fontanel's, spine, shoulders, elbows, and knees. This foetal baby may be placed in normal, breech, or transverse positions. It is cradled between two "cushions" which may be inflated independently of each other - inflation of the lower cushion raises the foetus to the desired position; inflation of the upper cushion creates a firm abdomen as in the ninth month of pregnancy. 25,4 x 25,4 x 25,4 cm; 1,8 kg

**M-1005823**

### Foetus for Vacuum Delivery (not shown)

Features smooth, soft skull with fontanel for realistic vacuum delivery. 52 x 14 x 11,4 cm; 1 kg

**M-1005791**

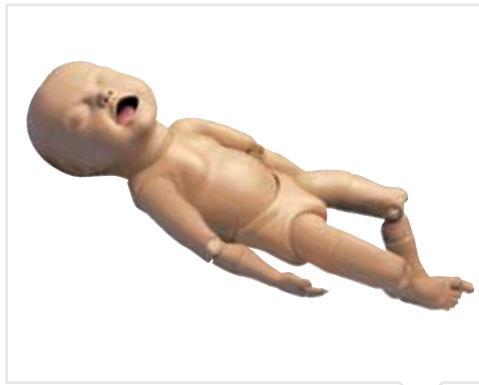


### Foetus Model

This model simulates an average full-term foetus. The human foetus is made of a soft and durable cloth. The body of the foetus model is flexible to show all presentations and positions possible during birth.

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

**Baby M-1005571**  
**Placenta & Umbilical Cord M-1005573**



### Suzie® Articulating Newborn

Now you can show delivery room nurses a hands-on demonstration of all those strange birth positions that you only see in textbooks – this newborn simulator can mimic them all! Features: 19-part simulator including articulating head and neck, shoulders, elbows, hips, and knees; realistic mouth and nostrils for simulated suctioning; palpable fontanelles, spine, shoulders, buttocks, elbows, and knees; position of newborn raised or lowered by air pressure in lower "cushion"; ease of newborn palpation adjusted by air pressure in upper "cushion." Measuring approximately 16,5", Suzie® may be used with the Advanced Childbirth Simulator M-1005790. Comes with instruction manual and soft carrying bag. 81 x 20 x 20 cm; 2,3 kg

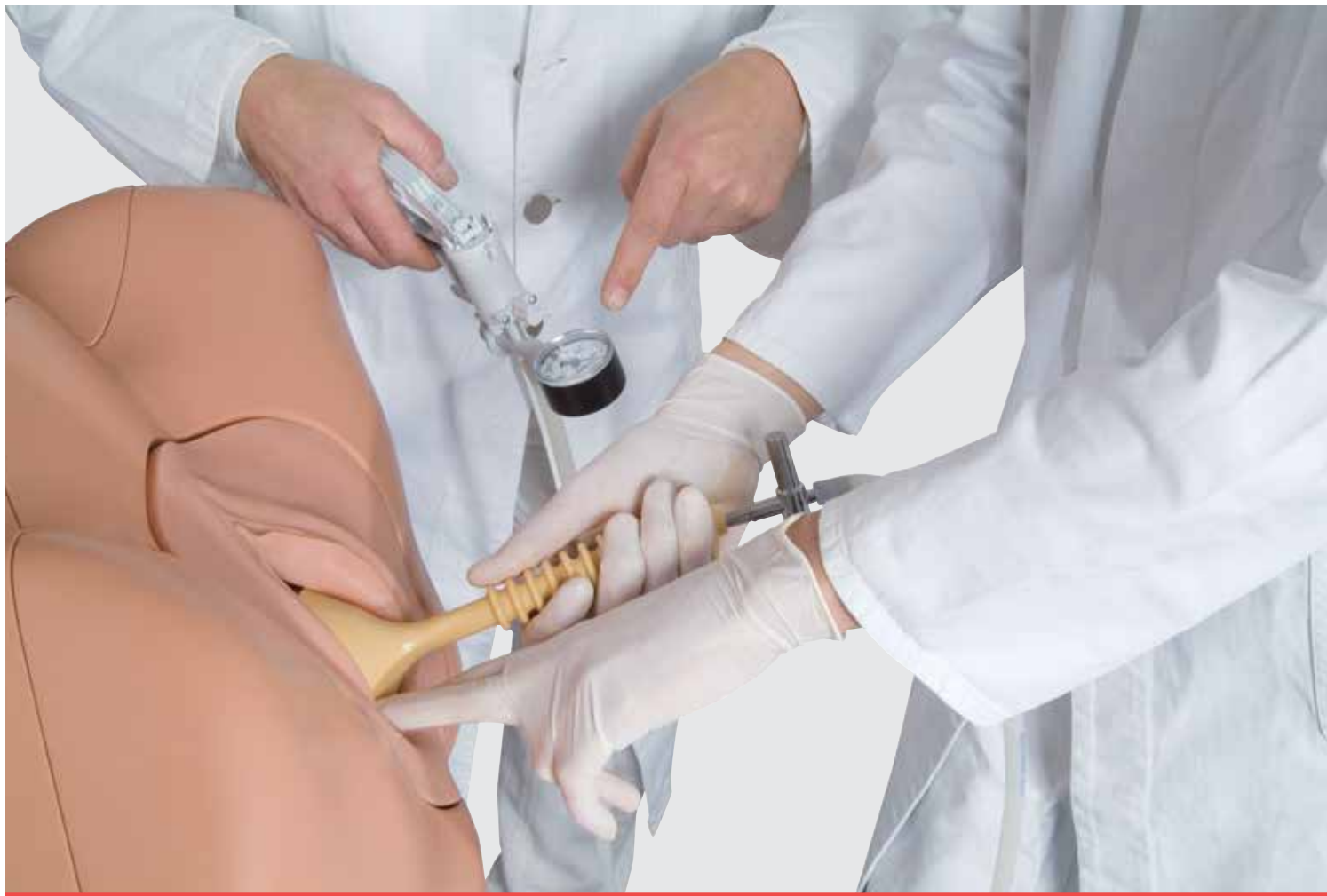
**M-1005814**



### Cervical Replica

This desktop cervical model is an excellent patient education tool for physicians and health care providers. Instructions manual included.

**M-1017243**



## SIMone™ Birthing Simulator

### Wins euRobotics Technology Transfer Award!

Simulate high-stress situations with the award-winning M-1000516 SIMone™ birthing simulator! Using patented haptic response technology, SIMone™ gives trainers and students a realistic, unique, and unrivaled training experience heightened by a specially developed visual and audio interface.

SIMone's patented force feedback mechanism allows the trainee to confidently learn and develop the skills necessary for performing complicated procedures. SIMone™ gives the opportunity to practise an instrumental delivery in a realistic manner - over and over again with little or no setup time! The M-1000516 is designed so that in less than 60 seconds a new birthing scenario can be initiated. SIMone™ also trains students in:

- Recognising the right moment to select a vaginal assisted delivery
- Correct handling of medical instruments for delivery
- Assessing position of foetal head in relation to the maternal pelvis
- Labour management using a partogram
- Medication administration to achieve progress during delivery
- Interpreting foetal heartbeat and uterin contraction through a CTG
- Interpreting respiratory sounds
- Interpreting the sounds of pain experienced by the mother

SIMone™ is a model of a female abdomen with a vulva and the spina ischiadica as landmarks. Inside the simulator is a foetal head with the sagittal suture and fontanelle for determining the position and approach of the head. The touchscreen monitor displays an exact image of the position and rotation of the foetal head within the maternal pelvis. 3B Scientific's monitoring software provides information on the progress of the birth and allows training in intervention both through the use of medication and the use of vacuum or forceps. A variety of customisable delivery scenarios are presented in the monitoring software so that modified model-based training is possible. Additionally, the cardiocotograph and partogram support the assessment and progress of the delivery scenario. Administration of medication or amniotomy are interventions that may be used in order to achieve the necessary progress during the delivery. 201 x 99 x 175,3 cm; 170 kg

M-1000516

▶ SIMone™ uses patented **haptic response technology!** ◀





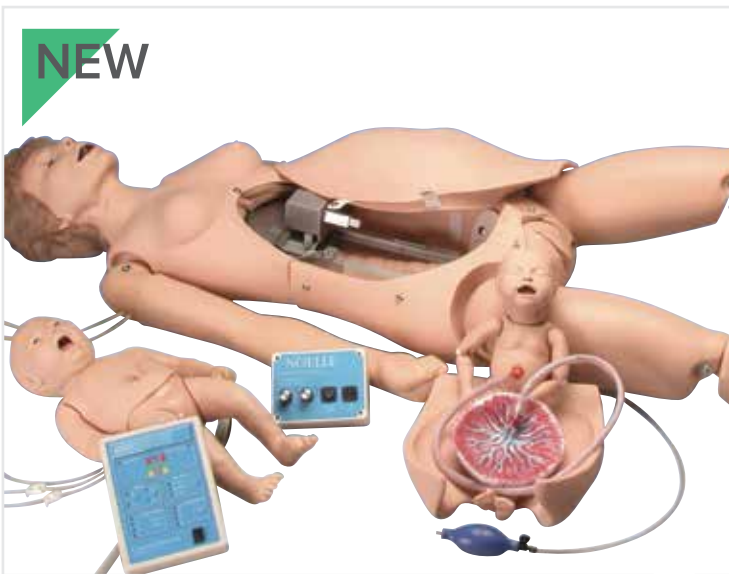
**SMART MOM Basic**

An obstetrical trainer focused on the two primary challenges in OB deliveries, Postpartum Hemorrhage (PPH) and Shoulder Dystocia, also exhibits a wide range of other birthing irregularities. Extensive Foetal Heart Rate (FHR) programming ensures a broad exposure to variations in wave forms to test your practitioners' knowledge and team leadership skills in handling patient treatment modalities.

The handheld iPad® unit controls the birthing position and rotation of the foetus, descent speed, vaginal bleeding, amniotic fluid, meconium, and the mother's physiological condition in an easy-to-use application. Scenarios are included with the packages and an available library of scenarios makes physiologic changes to treatments simple and quick.

Features for the assessment of typical patient status include 10 continuously active pulse points, pupil response and size, blood pressure, heart and lung sounds, spontaneous respirations, and 5-lead monitoring capabilities with defibrillation and pacing.

M-1018474



**NOELLE™ Birthing Simulator**

This childbirth simulator provides a comprehensive teaching system which combines the best of our patient care simulators with the advanced childbirth simulator.

NOELLE™ is designed to provide a complete birthing experience before, during and after delivery. The NOELLE™ birthing simulator comes with four umbilical cords, four dilating cervixes, two umbilical clamps, talcum powder, water soluble silicone lubricant, instruction manual and carrying bag.

Simulator with Baby M-1012417  
 Simulator without Baby M-1005815



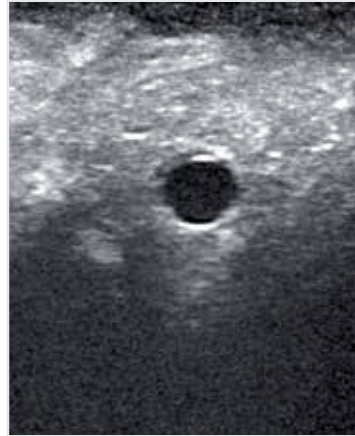
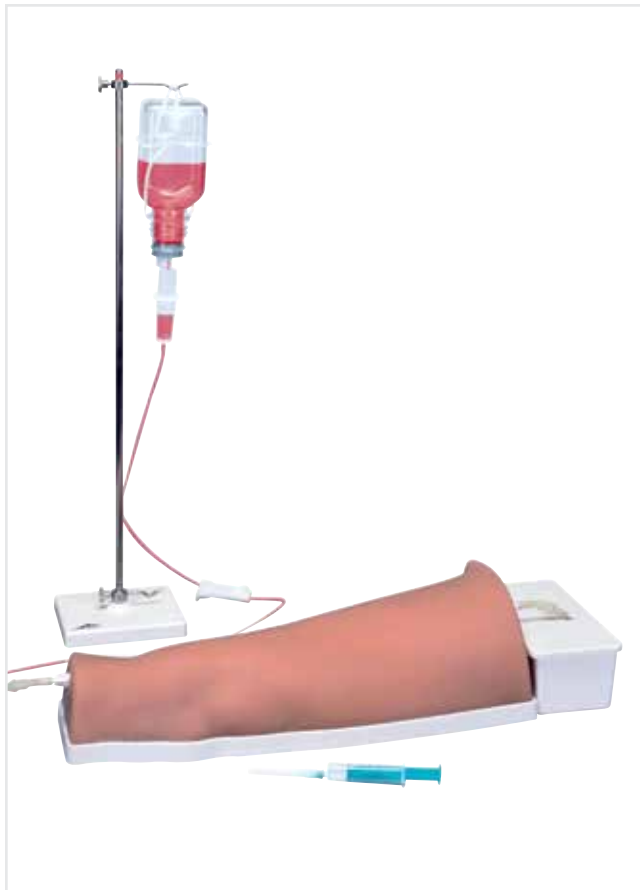
**NOELLE® Birth Simulator with PEDI® Blue Neonate**

This comprehensive teaching system combines the best of our patient care simulators with the Advanced Childbirth simulator. It is designed to provide a complete birthing experience before, during and after delivery.

- Intubatable airway with chest rise
- IV arm for meds/fluids
- Pratise Leopold Manoeuvres
- Automatic birthing system
- Measure head descent and cervical dilation
- Replaceable dilating cervixes
- Pratise postpartum suturing on vulval inserts
- One articulating birthing baby with placenta
- One resuscitation baby with intubatable airway and umbilical catheter site
- New postpartum haemorrhage and palpation module

M-1012732





## Tested during the 16th International Congress of the International Union of Phlebology!

### Simulator for Ultrasound Guided Venipuncture

The Ultrasound Sclerotherapy Simulator enables students to acquire the preclinical skills for ultrasound guided microfoam sclerotherapy to treat varicose veins in a cost-efficient way. Angiologists, phlebotomists and vascular surgeons can now easily practise using haptic response technology to develop their skills while using a simulator with realistic soft-tissue and life-like vena saphena.

#### Training with this simulator enables students to:

- Correctly react to the haptic response properties of human soft tissue while performing palpations and giving injections
- Become familiar with the echogenicity during ultrasound examinations due to the simulators realistic tissue texture
- Improve hand-eye coordination
- Gain confidence and experience required to successfully perform ultrasound-guided sclerotherapy on patients

M-1012792



### SMART STAT

SMART STAT Basic includes both cardiac and lung sounds, two points thoracic decompression and two sites for chest drains, monitor blood pressure, spontaneous breathing with full airway management including cricothyrotomy and proper intubation placement, manage cardiac crisis with EKG and cardioversion, chest compressions, IV access, and drug therapy.

The new iPad® interface makes controlling, monitoring, and tracking student and group training even easier and effective with responsive controls and dynamic scenarios that are easy to manage with PDF-formatted report to make the most of limited training time. Student performance records can be transferred to a computer, and chronological scenario event logs can be printed.

Challenge your students with skill proficiency, knowledge demonstration, and critical thinking as you put them through belligerent crowds, anxious family members, dangerous environments, and any other true scenario training exercises imaginable with this simple to use, very portable patient simulator.

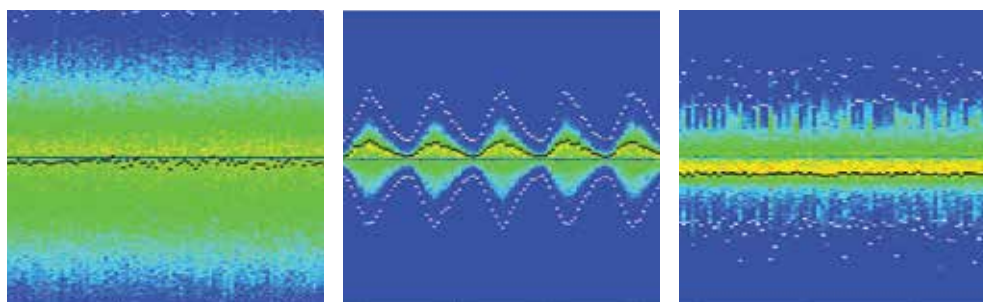
SMART STAT Basic M-1018472  
SMART STAT Complete M-1018473



### Life/form® Imaging Fracture Simulator

Students will be able to practise positioning skills, technical skills, and critical thinking skills as they produce radiographic images that will make learning anatomy, pathology, and image production an exciting educational experience. Exposure techniques for the simulator are in line with techniques typical to an adult humerus. Students will be able to visualise, create, and reduce bone displacement. Imaging concepts will become easy to understand as students can see how changing the position and/or projection of the X-ray beam alters the perspective of the anatomy visualised. Includes two interchangeable fracture types. 3-year warranty.

M-1017988



#### Model Eye for Ultrasonic Biometry

Model of the human eye, enlarged to a scale of 3 to 1, including the cornea, the lens and glass bodies for demonstrating the fundamentals of ultrasonic biometry. The biometric ratios in the human eye (distance between cornea and lens, thickness of lens, distance between lens and retina) are very well suited to demonstrating measurement using a pulse-echo method with ultrasound. With the help of an ultrasonic echoscope and a 2-MHz ultrasonic probe, typical echoes and the speed of sound can be measured. This allows the geometry of individual objects in the eye to be calculated. A lesion close to the back of the eye becomes apparent due to the diffuse nature of its echo. Dia. 80 mm; 0.7 kg

**M-1012869**

#### Items Required

|                           |                  |
|---------------------------|------------------|
| Ultrasonic Echoscope, USB | <b>M-1018616</b> |
| Ultrasonic Probe 2 MHz    | <b>M-1018618</b> |
| Ultrasonic Coupling Gel   | <b>M-1008575</b> |

#### Recommended for comparison:

M-1000259 Piece, 3:1 Scale Model of the Human Eye

▶ Did you know that 3B stands for best quality, best value, and best service? Learn more about us at **3bscientific.com!** ◀



### LT Lap Tab trainer™

Technology meets simplicity with the Lap Tab trainer™ that works with your iPad, iPhone, tablet, or smartphone. No electricity required making it easy to practise or demonstrate lap skills anywhere! Developed in collaboration with Mr. Ali N. Bahsoun from Guy's and St. Thomas' Hospital, London, UK. The Lap Tab trainer™ is ideal for residents to take home and practise. Being our most portable trainer yet, the Lap Tab trainer™, folds up and is small enough to fit into a backpack and is simple to set up.

|                                 |           |
|---------------------------------|-----------|
| Trainer                         | M-1018107 |
| Trainer with Side Ports         | M-1018108 |
| Trainer Package                 | M-1018111 |
| Trainer with Side Ports Package | M-1018113 |
| Trainer Messenger Bag           | M-1018114 |



### T3 Series

The T3 Series is a complete minimally invasive training system that does not require video equipment. It's simple to set up and portable. The T3 Classic includes the original classic pelvic box + SimScope™ (camera) + 10" monitor. The pelvic box has 7 laparoscopic ports with interchangeable grommets (5 and 10mm) and interior lighting. The SimScope™ is conveniently mounted inside the trainer at an angle set to capture the activity in the work area and has a fixed view. A handle is located on the back of the box to provide easy portability. No assembly required. The T3 Series is designed to be used for a one-person laparoscopic suturing workstation.

|                |           |
|----------------|-----------|
| T3 Classic     | M-1018115 |
| T3 Joystick    | M-1018116 |
| T3 Single-Site | M-1018117 |



### T5 Series

A complete minimally invasive training system that does not require video equipment, simple to set up and portable. It includes the large pelvic box + SimScope™ (camera) + 10" monitor. It is versatile because it can be used for basic laparoscopic skills up to advanced procedural training, including camera navigation for an individual or a team. Residents may practise on the T5 Large to acquire the skills incorporated into the FLS® modules. The large pelvic box has 14 laparoscopic ports with interchangeable grommets (5 mm and 10 mm) and interior lighting.

|             |           |
|-------------|-----------|
| T5 Large    | M-1018118 |
| T5 Large RM | M-1018119 |



### T9 Series

Designed for Abdominal Intraoperative and Laparoscopic Ultrasound training. The extra large pelvic box has a slide-out drawer that houses the Abdominal Intraoperative and Laparoscopic Ultrasound Phantom "IOUSFAN" made by Kyoto Kagaku. The pelvic box has 7 laparoscopic ports that provide training and demonstration flexibility. The ports are fitted with grommets designed to hold the ultrasound wand (not included). The slide-out drawer provides easy access for inserting the Organs. A handle is located on the back of the trainer to provide easy portability.

M-1018120

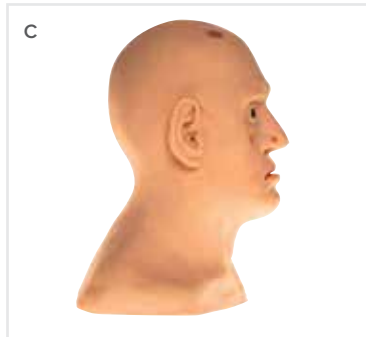


### T12 Series

A complete minimally invasive training system that does not require video equipment, simple to set up and portable. The T12 includes the new "belly shape" pelvic box + the new Advanced 0° SimScope™ (camera) + 19" monitor. It is versatile because it can be used for basic laparoscopic skills up to advanced procedural training, including camera navigation for an individual or a team. It has a 9.5 mm diameter shaft (220 mm or 310 mm) which fits like a real scope into trocars and ports, the focus is easily adjusted at the camera tip by rotating in or out. Available only in 120v Power.

|          |           |
|----------|-----------|
| T12      | M-1018121 |
| T12 Soft | M-1018122 |





**Head Models**

The Cosmo and II Duomo models are ideal for practising advanced flaps and grafts in addition to basic suturing procedures. Additional procedures that can be performed with II Duomo with Tumours and Advanced II Duomo are: Tumour excision and scar revision, wedge resection of ear, pentagonal wedge eyelid and Estlander lip switch flap.

- A. Cosmo M-1018126
- B. II Duomo M-1018127
- C. II Duomo with Tumours M-1018128
- D. Advanced II Duomo M-1018129

**Cosmetic Filler Models**

The skin on the Zsa Zsa model is specially made to allow injections to be performed. Basic to advanced suturing procedures can also be performed on this model. The Diaphanous Zsa Zsa has specially crafted translucent skin which allows for the checking of filler placement.

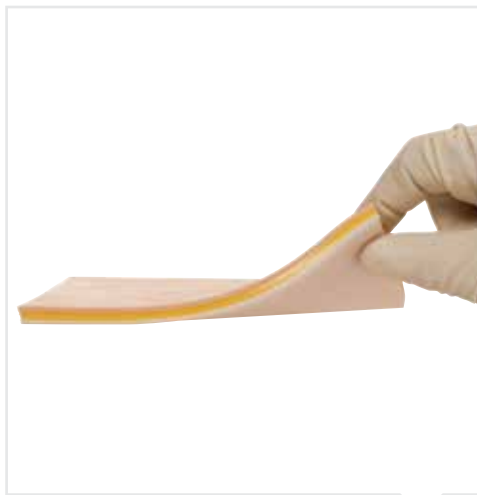
- E. ZSA M-1018130
- F. Diaphanous ZSA ZSA Model M-1018131



**Sclerotherapy Pad**

The Sclero pad is used to practise injections. The vessels on this pad are heat sensitive and should be injected with hot water. When injected properly, the vessels disappear and reappear in about 30 seconds. The recommended temperature of the water is 31° Celsius (hot tap water will work fine). We also recommend using a 30G 1/2" needle for the injections. To maximise the use of the pad, begin injecting towards the bottom of the pad and work your way up the vessels. The pad contains 6 vessels of different diameters (0.2 mm, 0.5 mm, 2 mm, 3 mm).

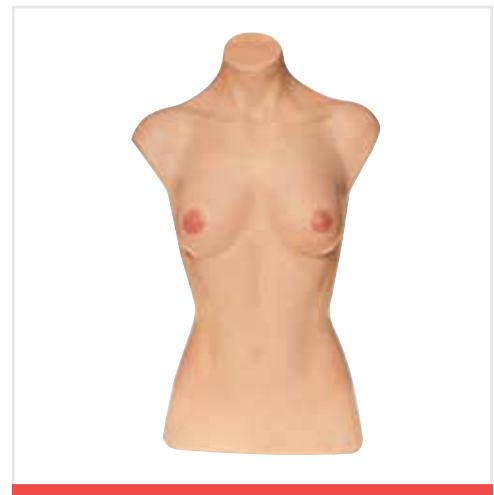
M-1018133



**Suture Pads**

Realistic skin for basic suture training. The flat skin pad consists of an epidermis, dermis and subcutaneous layer and behaves as real skin when cut and sutured. The Garcia Pad simulates the thickness of facial skin. The Dali Pad is half-face and half-abdomen and finally the skin on the face portion is 2-3 mm thick and the skin on the abdomen portion is 3-4 mm thick.

- Flat Pad M-1018123
- Garcia Pad M-1018124
- Dali Pad M-1018125



**Breast-Torso Model**

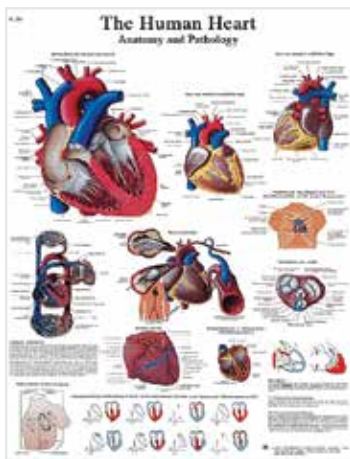
The Breast-Torso Model is currently used to plan breast surgeries. Both basic and advanced suturing procedures can be performed on this model.

M-1018132

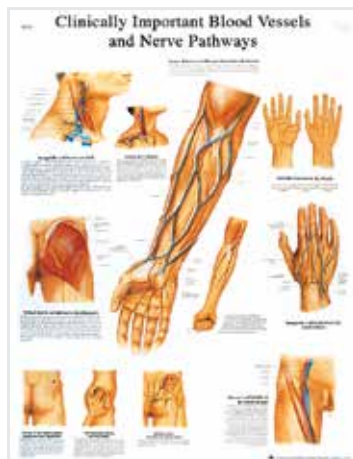
► **3B Scientific® Charts & Posters**  
**The finest anatomy illustrations available!**

Anatomical wall charts and posters from 3B Scientific® are ideal for teaching human anatomy, patient education and medical studies! All anatomy charts are available in 50 X 67 cm unless otherwise stated. An excellent addition to anatomical models in the classroom or doctors office.

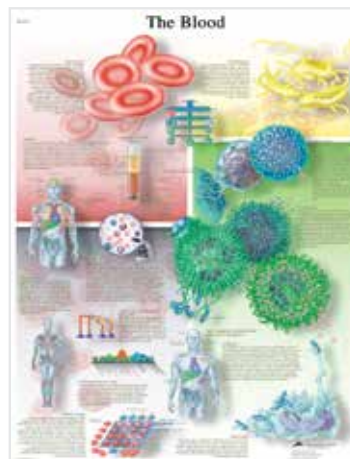
Available in unlaminated (paper version), laminated, or with plastic rods for the paper version. Posters are available in English, French, German, Spanish, Portuguese, Italian and several other languages.



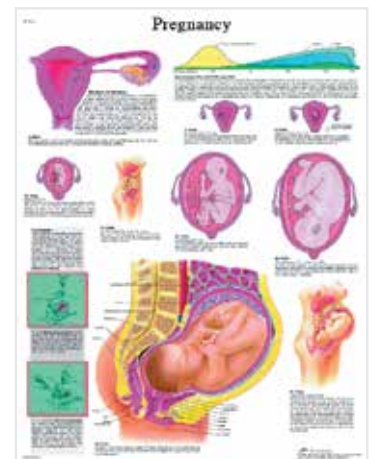
**The Human Heart Chart**  
 Laminated M-1001524  
 Paper M-4006679



**Blood Vessels & Nerve Chart**  
 Laminated M-1001530  
 Paper M-4006682



**The Blood Chart**  
 Laminated M-1001538  
 Paper M-4006686

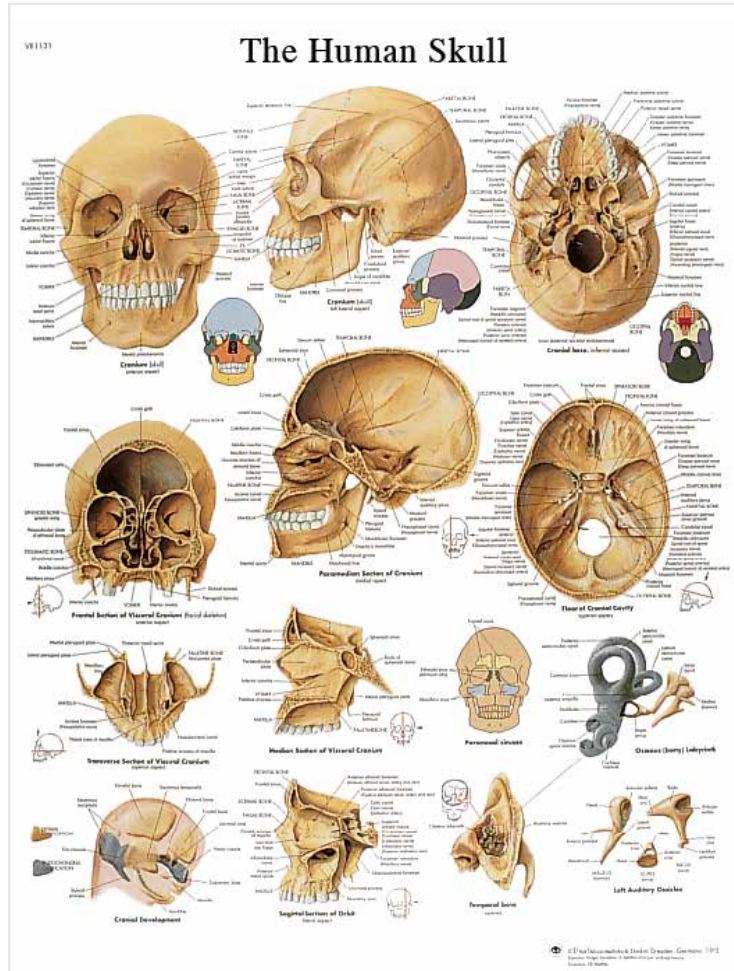


**Pregnancy Chart**  
 Laminated M-1001572  
 Paper M-4006703

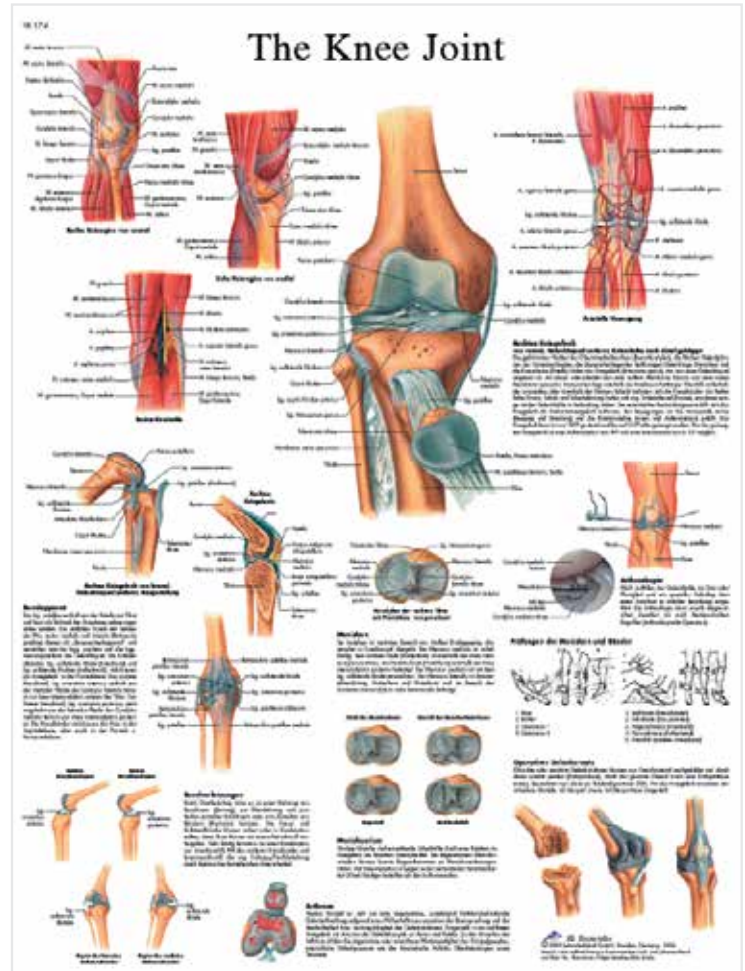


# Anatomical wall charts and posters by 3B Scientific®

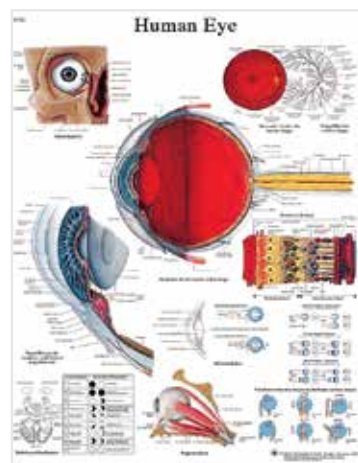
All charts are 50 x 67 in. Visit us at [3bscientific.com](http://3bscientific.com) for all available options!



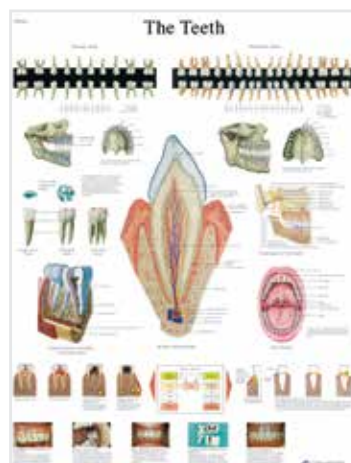
**The Human Skull Chart**  
Laminated M-1001478  
Paper M-4006656



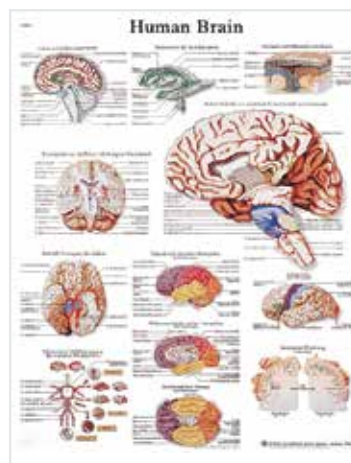
**The Knee Joint Chart**  
Laminated M-1001488  
Paper M-4006661



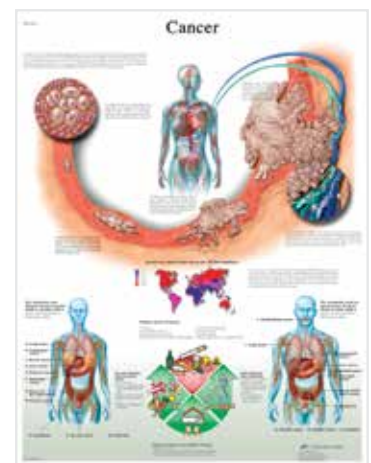
**Human Eye Chart**  
Laminated M-1001496  
Paper M-4006665



**The Teeth Chart**  
Laminated M-1001510  
Paper M-4006672



**Human Brain Chart**  
Laminated M-1001584  
Paper M-4006709



**Cancer Chart**  
Laminated M-1001612  
Paper M-4006723



# Charts Guide

All charts are 50 x 67 in. Visit us at [3bscientific.com](http://3bscientific.com) for all available options!

| <b>Bones</b>       | <b>Laminated</b> | <b>Unlaminated (paper)</b> |
|--------------------|------------------|----------------------------|
| Human Skeleton     | M-1001468        | M-4006651                  |
| Human Skull        | M-1001478        | M-4006656                  |
| Shoulder and Elbow | M-1001482        | M-4006658                  |
| Hand and Wrist     | M-1001484        | M-4006659                  |
| Pelvis and Hip     | M-1001486        | M-4006660                  |
| The Knee Joint     | M-1001488        | M-4006661                  |
| Foot and Ankle     | M-1001490        | M-4006662                  |

| <b>Muscle</b>     |           |           |
|-------------------|-----------|-----------|
| Human Musculature | M-1001470 | M-4006652 |

| <b>Pathologies</b>               |           |           |
|----------------------------------|-----------|-----------|
| Osteoporosis                     | M-1001472 | M-4006653 |
| Arthritis                        | M-1001474 | M-4006654 |
| Sports Injuries                  | M-1001494 | M-4006664 |
| Diseases of the Eye              | M-1001498 | M-4006666 |
| Rhinitis and Sinusitis           | M-1001504 | M-4006669 |
| Diseases of the Middle Ear       | M-1001506 | M-4006670 |
| Respiratory Tract Infections     | M-1001508 | M-4006671 |
| Skin Cancer                      | M-1001514 | M-4006674 |
| Alcohol Dependence               | M-1001620 | M-4006727 |
| Nicotine Dependence              | M-1001622 | M-4006728 |
| Allergies                        | M-1001596 | M-4006715 |
| Decubitus Ulcers                 | M-1001606 | M-4006720 |
| Flu (Influenza)                  | M-1001608 | M-4006721 |
| HIV and AIDS                     | M-1001610 | M-4006722 |
| Pneumonia                        | M-1001518 | M-4006676 |
| Common Cardiac Disorders         | M-1001526 | M-4006680 |
| Varicose Veins                   | M-1001534 | M-4006684 |
| Diseases of the Digestive System | M-1001548 | M-4006691 |
| Colon Cancer                     | M-1001550 | M-4006692 |
| Hepatitis                        | M-1001552 | M-4006693 |
| Diabetes                         | M-1001554 | M-4006694 |
| Cholesterol                      | M-1001558 | M-4006696 |
| Stroke                           | M-1001590 | M-4006712 |
| Alzheimer's Disease              | M-1001592 | M-4006713 |

| <b>Organs</b>   |           |           |
|-----------------|-----------|-----------|
| Human Eye       | M-1001496 | M-4006665 |
| Human Ear       | M-1001500 | M-4006667 |
| The Larynx      | M-1001502 | M-4006668 |
| The Skin        | M-1001512 | M-4006673 |
| The Human Heart | M-1001524 | M-4006679 |

|                    |           |                      |
|--------------------|-----------|----------------------|
| Lymphatic System   | M-1001540 | <i>not available</i> |
| The Liver          | M-1001544 | M-4006689            |
| The Urinary Tract  | M-1001562 | M-4006698            |
| Kidney             | M-1001564 | M-4006699            |
| The Prostate Gland | M-1001566 | M-4006700            |
| Human Brain        | M-1001584 | M-4006709            |

### **Pregnancy & Childbirth**

|               |           |           |
|---------------|-----------|-----------|
| Pregnancy     | M-1001572 | M-4006703 |
| Childbirth    | M-1001574 | M-4006704 |
| Breastfeeding | M-1001578 | M-4006706 |
| Birth Control | M-1001580 | M-4006707 |

### **Gynecology**

|                           |           |           |
|---------------------------|-----------|-----------|
| The Female Genital Organs | M-1001568 | M-4006701 |
| The Female Breast         | M-1001576 | M-4006705 |

### **Stomach**

|                             |           |           |
|-----------------------------|-----------|-----------|
| The Gastrointestinal System | M-1001542 | M-4006688 |
| The Stomach                 | M-1001546 | M-4006690 |

### **Cell Genetics**

|                          |           |           |
|--------------------------|-----------|-----------|
| Human Metabolic Pathways | M-1001556 | M-4006695 |
|--------------------------|-----------|-----------|

### **Blood Vessel & Nervous System**

|  |           |           |
|--|-----------|-----------|
| Clinically Important Blood Vessel and Nerve Pathways | M-1001530 | M-4006682 |
| The Blood  | M-1001538 | M-4006686 |
| The Vegetative Nervous System                        | M-1001582 | M-4006708 |
| The Nervous System                                   | M-1001586 | M-4006710 |
| Spinal Nerves  | M-1001588 | M-4006711 |

### **Acupuncture**

|                          |           |           |
|--------------------------|-----------|-----------|
| Foot Reflex Zone Massage | M-1001624 | M-4006729 |
| Ear Acupuncture          | M-1001628 | M-4006731 |
| Body Acupuncture         | M-1001626 | M-4006730 |

### **Dental**

|           |           |           |
|-----------|-----------|-----------|
| The Teeth | M-1001510 | M-4006672 |
|-----------|-----------|-----------|

### **CPR**

|                    |           |           |
|--------------------|-----------|-----------|
| Basic Life Support | M-1001616 | M-4006725 |
|--------------------|-----------|-----------|

### **Lungs**

|                        |           |           |
|------------------------|-----------|-----------|
| The Respiratory System | M-1001516 | M-4006675 |
|------------------------|-----------|-----------|

## 3B Scientific® Commissions

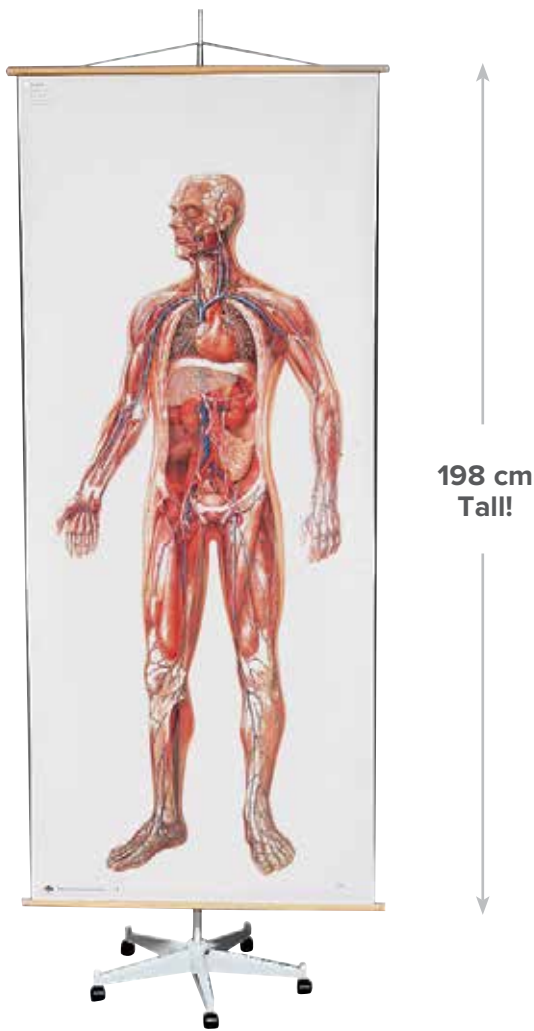
Our oversized wall charts make a dramatic impact in an educational or medical setting. The same commitment to quality and detail found in our popular poster-size anatomical charts; only much, much bigger. Printed on tear-resistant, waterproof paper mounted with wooden rods so they are ready to hang. They are also available without wooden rods. Accurately rendered scientific content. All wall charts are 84 x 200 cm.

### Special Mobile Stand

We recommend this helpful stand for displaying the anatomical wall charts.

M-1000520

**Perfect fit for classroom & exam room doors!**



198 cm  
Tall!

### The Vascular System

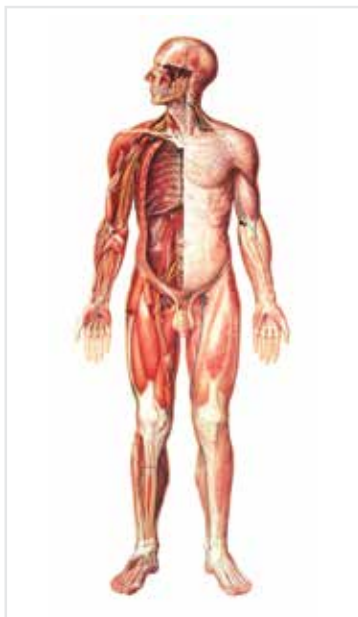
Mounted M-1001151  
Unmounted M-4006514

### Human Musculature Front Side

Mounted M-1001149  
Unmounted M-4006514

### Human Musculature Back Side

Mounted M-1001153  
unmounted M-4006516



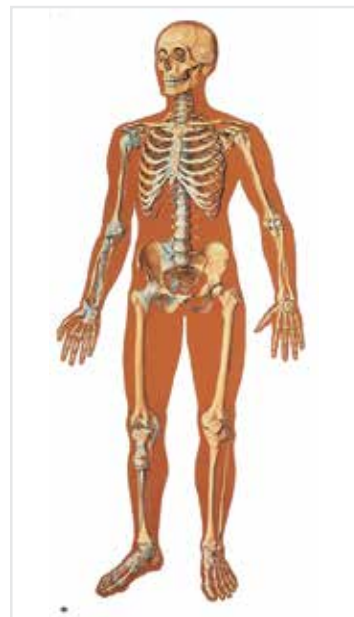
### The Nervous System, Front Side

Mounted M-1001190  
Unmounted M-4006539



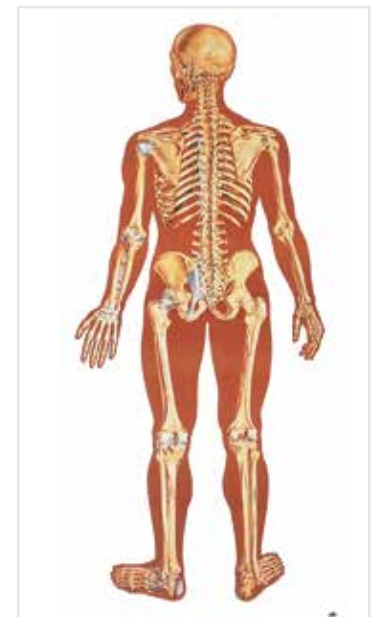
### The Nervous System, Back Side

Mounted M-1001192  
Unmounted M-4006540



### Human Skeleton with Ligaments, Front Side

Mounted M-1001146  
Unmounted M-4006512



### Human Skeleton with Ligaments, Back Side

Mounted M-1000012  
Unmounted M-4006513



# Wall Charts Guide

All wall charts are 84 x 200 cm. Visit us at [3bscientific.com](http://3bscientific.com) for all available options!

| <b>Skeleton</b>               | <b>Mounted</b> | <b>Unmounted</b> | <b>Blood</b>                      | <b>Mounted</b> | <b>Unmounted</b> |
|-------------------------------|----------------|------------------|-----------------------------------|----------------|------------------|
| The Human Skeleton, Front     | M-1001146      | M-4006512        | The Composition of Blood I        | M-1001183      | M-4006534        |
| The Human Skeleton, Rear      | M-1000012      | M-4006513        | Human Blood Circulation           | M-1001169      | M-4006525        |
| <b>Muscle</b>                 |                |                  | <b>Cell</b>                       |                |                  |
| The Human Musculature, Front  | M-1001149      | M-4006514        | Human Cell Structure              | M-1001179      | M-4006531        |
| The Human Musculature, Rear   | M-1001153      | M-4006516        | Cell Division I, Mitosis          | M-1001206      | M-4006548        |
| Muscle Tissue                 | M-1001212      | M-4006551        | Cell Division II, Meiosis         | M-1001210      | M-4006550        |
| <b>Nervous System</b>         |                |                  | <b>Bacteria &amp; Parasites</b>   |                |                  |
| The Nervous System, Front     | M-1001190      | M-4006539        | Bacteria                          | M-1001194      | M-4006541        |
| The Nervous System, Rear      | M-1001192      | M-4006540        | Intestinal Parasites I            | M-1001171      | M-4006526        |
| The Central Nervous System    | M-1001185      | M-4006536        | Intestinal Parasites II           | M-1001181      | M-4006532        |
| <b>Skin</b>                   |                |                  | <b>Bones</b>                      |                |                  |
| The Skin                      | M-1001177      | M-4006530        | Bone Structure                    | M-1001208      | M-4006549        |
| <b>Vegetative System</b>      |                |                  | <b>Vascular System</b>            |                |                  |
| The Vegetative Nervous System | M-1001218      | M-4006556        | The Vascular System               | M-1001151      | M-4006515        |
| <b>Endocrine System</b>       |                |                  | <b>The Digestive System</b>       |                |                  |
| The Endocrine Glands          | M-1001200      | M-4006545        | The Digestive System              | M-1001196      | M-4006542        |
| <b>Heart</b>                  |                |                  | <b>Dental</b>                     |                |                  |
| The Anatomy of the Heart I    | M-1001214      | M-4006552        | Healthy Denture                   | M-1001167      | M-4006524        |
| <b>Gynecology</b>             |                |                  | <b>Torso</b>                      |                |                  |
| The Menstrual Cycle           | M-4006559      | M-4006559        | The Human Torso                   | M-1001159      | M-4006519        |
| <b>Organs</b>                 |                |                  | <b>Pregnancy &amp; Childbirth</b> |                |                  |
| The Male Pelvic Organs        | M-1001173      | M-4006527        | Position of the Child             | M-1001226      | M-4006562        |
| The Female Pelvic Organs      | M-1001175      | M-4006528        | The Birth Process                 | M-1001204      | M-4006547        |
| The Internal organs           | M-1001155      | M-4006517        | Embryology I                      | M-1001222      | M-4006560        |
| The Kidney                    | M-1001165      | M-4006523        | Embryology II                     | M-1001224      | M-4006561        |
| The Respiratory Organs        | M-1001188      | M-4006538        |                                   |                |                  |
| The Speech Organs             | M-1001157      | M-4006518        |                                   |                |                  |
| The Ear                       | M-1001161      | M-4006520        |                                   |                |                  |
| The Anatomy of the Eye I      | M-1001163      | M-4006521        |                                   |                |                  |

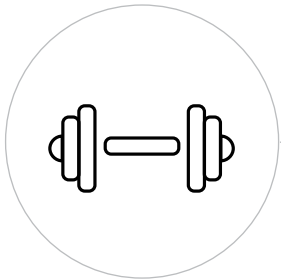


## MEDICAL EDUCATION

Anatomical models are an essential teaching tool in medical education both for students and patients. They make a visual and hands-on demonstration possible that effectively supports the comprehension of the human anatomy. Most of our key products have been cast from actual specimens, This is why 3B Scientific® models come as close to reality as possible, are made of highest quality material and their durability is industry leading.

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In medical training, simulators are used to teach students the skills they need to be prepared for real cases. These simulators must be as close to the reality as possible, be of great quality, hygienic and also economical in long-term use. You will find simulators for all your training needs manufactured to meet all your standards at [3bscientific.com](http://3bscientific.com).

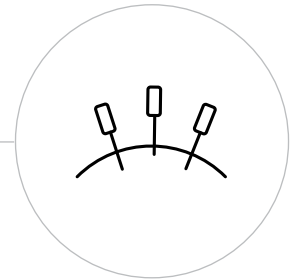


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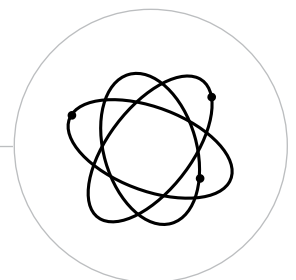


## BIOLOGY

Engaging Biology classes are the most effective way to create a long-lasting learning experience. 3B Scientific® models are the perfect tool for fascinating, hands-on education, being cast from actual specimens and made of highest quality material.

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*See more information about this segmented lung on page 61.*

