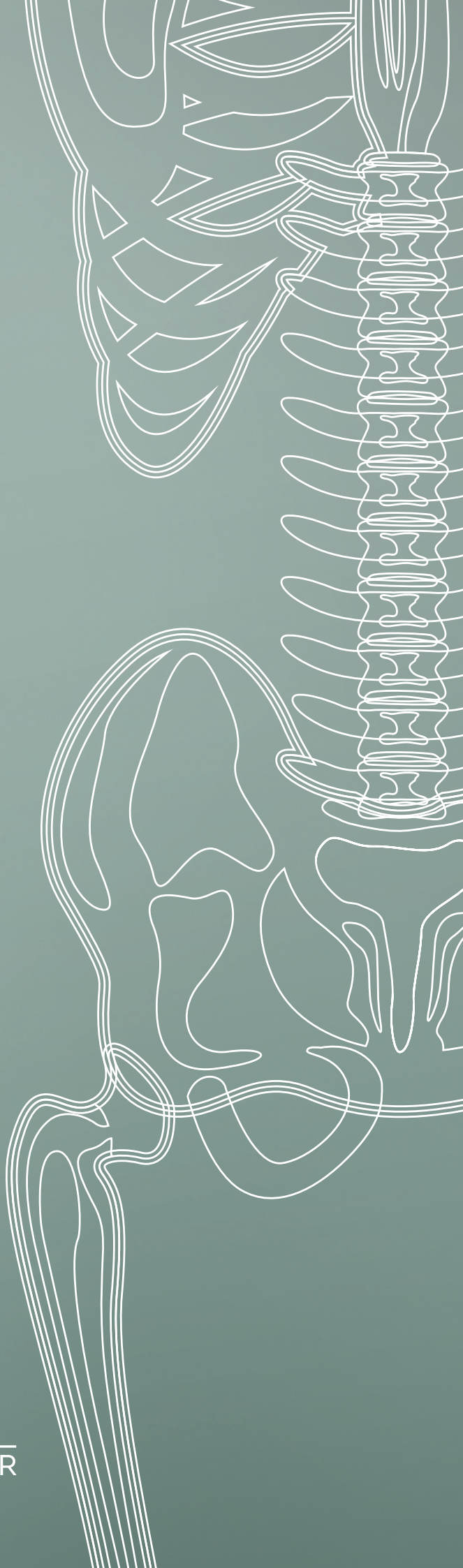
Product Portfolio

Medical Imaging



ERLER ZIMMER

Highly specialised X-Ray and CT models realistically simulate human tissue and anatomies and enable precise diagnostic and therapeutic exercises.

Efficient Training and Education with Medical Imaging Techniques

The precise application of imaging techniques is a fundamental part of medical training. Erler-Zimmer offers specially developed products that enable practical and efficient training of medical professionals. Our solutions are designed to optimally prepare learners for the challenges of clinical practice by providing realistic, interactive imaging techniques that enhance understanding and mastery of modern technologies.

With Erler-Zimmer’s high-quality training models, doctors and medical staff can learn in a safe and controlled environment. Our products not only offer accurate replicas of human anatomy but also allow for hands-on practice with imaging techniques such as X-Rays, CT scans, MRI, and ultrasound. This enables professionals to gain the necessary knowledge and skills to work safely and precisely in real-world situations.

Rely on Erler-Zimmer for expert and modern training of your staff. With our imaging solutions, we provide the ideal support to prepare professionals for the demands of medical imaging – with the added benefit of relying on the highest Made in Germany quality, equipping your learners with the best tools to succeed in practice.

Content

X-Ray

Full Body X-Ray Phantom

This model is unique in the world and provides excellent training opportunities for positioning and alignment techniques in projection radiography. It should be part of the basic equipment of any radiographic school. The phantom contains a real human skeleton as well as outlines of larynx, lung, heart and kidneys (organs will create a shadow on the image), which allows taking real X-Ray images like in a patient. Using a real skeleton provides even smallest guiding structures which is impossible with a plastic skeleton. During assembly of this phantom we pay special attention to the correct size of joint spaces.

View product video here:

Full Body X-Ray Phantom
Item No. 7200

Radiographic positioning doll, plastic skeleton
Item No. 7201

All joints are moveably mounted allow positioning in all normal X-Ray positions (e.g. frog position, pro- and supination of lower arm). The arms can be moved upwards which makes the phantom suitable for use in all kinds of osseous examinations under CT.

The new version was re-designed in co-operation with a well-known German school for radiographers and fits all needs for education in radiography. This phantom is only sold against proof of medical use. Life size.

With proper handling, our full-body X-Ray Phantom can be used without any issues for many years in numerous training sessions. Should your X-Ray Phantom be damaged, we are happy to offer our straightforward repair service. Please note that any attempts at self-repair should be avoided, as they generally lead to irreparable damage to the bones.

X-Ray Phantom Repair Service

1. **Pick-Up Service**
   The forwarder comeswith an empty transport case and collectsbyour phantom.
2. **Repair Cost Estimate**
   We will provide you with a cost estimate. You decide about a repair then.
3. **Repair**
   The phantom will be repaired fast and reasonable priced at our factory. Result: as NEW!
4. **Delivery**
   The “new” phantom will be delivered by the forwarder.

All Erler-Zimmer phantoms including transport cases.

X-Ray Phantom Thorax

Thorax X-Ray Phantom, consisting of spine (C6 to L3), thoracic cage, shoulder blades and collar bones, embedded in soft materials. Mounted without metal parts. Organs (lung, heart, kidneys) are present as outlines to create a shadow on the X-Ray image. The natural bones used may have, depending on availability, individual pathological changes, minor structural defects or mounting holes.

Item No. 7400

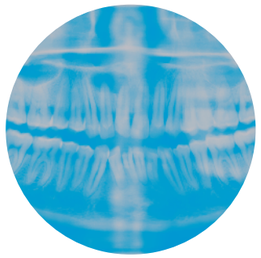
X-Ray Phantom Pelvis, flexible

This flexible X-Ray Phantom Pelvis contains real human bones and offers the unique opportunity to take real X-Ray images. This Phantom consist of a complete pelvis including coccyx, two lumbar vertebrae (L4+L5) and femur stumps. The soft material makes this product ideal for palpation. The natural bone used may have, depending on availability, individual pathological changes, minor structural defects or mounting holes. Delivered with strong transport case.

Item No. 7410

X-Ray Phantom Head

Human skull, safely embedded in plastic for easy use. The jaws are slightly open to allow dental panoramic images of the teeth. The neck includes some cervical vertebrae depending on the ordered type. An embedded tread allows the use with a tripod.



- X-Ray Phantom head with cervical vertebrae, transparent
  Item No. 7300
- X-Ray Phantom head with cervical vertebrae, opaque
  Item No. 7310
- X-Ray Phantom head, transparent
  Item No. 7320
- X-Ray Phantom head, opaque
  Item No. 7330

Tripod for X-Ray Phantom head
Item No. 7350

X-Ray Phantom shoulder

This X-Ray part phantom gives the unique opportunity to take X-Ray images of single body parts again and again. The Phantom includes real human bones and allows taking real X-Ray images. The model is perfect for schools and education, but also for medical technicians since the same bones can be X-Rayed again and again in different settings without the danger of harming a patient. The bones are embedded in transparent plastic.

Transparent
Item No. 7340

Opaque
Item No. 7345

X-Ray Phantom Lower Arm

Hand with forearm and elbow.

Transparent
Item No. 7220

Opaque
Item No. 7225

X-Ray Phantom Elbow

Part of upper and lower arm.

Transparent
Item No. 7260

Opaque
Item No. 7265

X-Ray Phantom Hand

Hand with wrist.

Transparent
Item No. 7210

Opaque
Item No. 7215

X-Ray Phantom Pelvis

With two lumbar vertebrae and femur stumps.

Transparent
Item No. 7240

Opaque
Item No. 7245

X-Ray Phantom Knee

Part of upper- and lower leg and patella.

Transparent
Item No. 7250

Opaque
Item No. 7255

X-Ray Phantom Foot

Foot Skeleton with start of lower leg.

Transparent
Item No. 7230

Opaque
Item No. 7235

Head with closed mouth
Item No. R16525

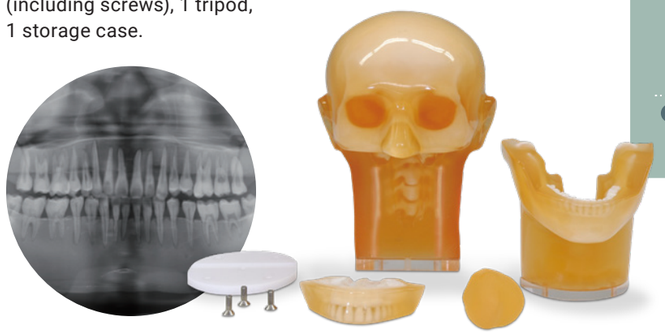
Head with open mouth
Item No. R16526

Dental Radiography Head Phantom

Removable jaws and tongue allow a variety of application for training and research.

Anatomy:
- Synthetic skull with nasal cavity, maxillary sinus, mandible alveolar, and maxillary alveolar; cervical vertebrae and hyoid bone, teeth with enamel, dentin and pulp cavity.
- Tongue, oral cavity, pharyngeal cavity and carotid arteries

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



Product Benefits

- Each tooth is individually modeled and has a three-layer structure of enamel, dentin and pulp cavity.
- Each hard tissue (enamel, dentin, cortical bone and cancellous bone) has a particular HU number and X-Ray absorption rate.
- Jaws and tongue are detachable to allow access to the oral cavity, pharyngeal cavity and maxillary sinus. Sensors, simulated lesions, or residue can be set in these cavities.
- Carotid arteries are prepared as lumens to accommodate simulated calcifications.

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Sectional X-Ray phantom with artificial bones

This series of sectional phantoms offers X-Ray imaging with always identical images without anatomical differences between two models. This means you can use several identical phantoms or replace a broken or lost phantom by exactly the same. The Thorax Phantom includes a thoracic skeleton with embedded heart and lungs to provide realistic imaging. The scapulae are rotated outside of the lung fields for proper PA chest imaging. The Pelvis Phantom includes lumbar/sacral spine, pelvic bony anatomy and proximal femurs.

Head Phantom

Transparent
Item No. R16700

Opaque
Item No. R16701

Thorax Phantom

Transparent
Item No. R16702

Opaque
Item No. R16703

Pelvis Phantom

Opaque
Item No. R16704

Right Elbow Phantom

Movable, normal flexion range allows for AP/lateral and partial flexion views with one phantom.

Transparent
Item No. R16705

Opaque
Item No. R16706

Right Hand Phantom

Flat, Right Hand with unbent fingers.

Transparent
Item No. R16707

Opaque
Item No. R16708

Left Hand Phantom

Left Hand with grasping position.

Transparent
Item No. R16709

Opaque
Item No. R16710

Right foot Phantom

Right foot with normal position.

Transparent
Item No. R16713

Opaque
Item No. R16714

Left foot Phantom

Left foot with oblique position.

Transparent
Item No. R16715

Opaque
Item No. R16716

Right Knee Phantom

Right Knee with freely movable patella.

Transparent
Item No. R16711

Opaque
Item No. R16712

Full Body X-Ray positioning Phantom

Student training is difficult in situations where social distancing must be maintained. This phantom helps prevents close interaction within your education programs.

Item No. R16850

Specifications:

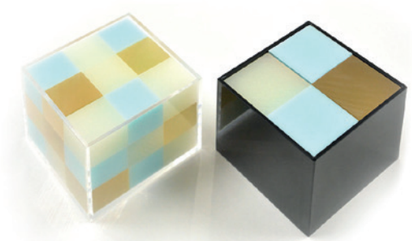
- Size: approx. 165 cm
- Chest measurement:
  approx. 85 cm (body thickness: approx. 20 cm)
- Waist circumference:
  approx. 75 cm (body thickness: approx. 19 cm)
- Weight: approx. 19kg

Product Benefits

- Lightweight design (only 19 kg).
- Optimized for positioning training.
- Soft-touch urethane foam tissue
- Realistic joint range of motion
- Elbows and knees bend to 90°
- Hip joints allow frog-leg position
- Fits in a standard wheelchair

XCUBEFAN Radiology Cube Phantom

Designed for beginners to provide better understanding of the special characteristics seen in radiology imaging. The black box is designed for practice, whilst the clear box facilitates visual explanation for instructors. There are three types of cubes, orange with CT value appr. 0 and density 1,06, yellow with CT value appr. 1000 and density 1,21 and blue with CT value appr. 500 and density 1,4.



30mm Cube Set
Item No. R16945

20mm Cube Set
Item No. R16946

Pediatric Whole Body Phantom

The new pediatric whole body phantom is modeled after a 4-year-old child of 105 cm height. This phantom is a life-size, full body anthropomorphic phantom with a state-of-the-art synthetic skeleton, lungs, liver, mediastinum and kidneys embedded in soft tissue substitute.

Separates into:
- head
- trunk
- right upper arm
- right forearm with hand
- left upper arm
- left forearm with hand
- right thigh
- right lower leg with foot
- left thigh
- left lower leg with foot

Item No. R16970

Features:

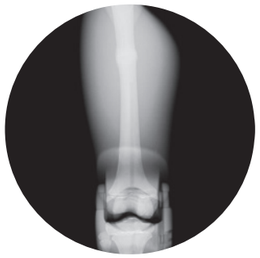
- Movable joints allow basic positioning for plain X-Ray
- Training and research applications can be enriched by disassembling the phantom into 10 individual parts (head, limbs and trunk)
- The phantom has no metal parts or liquid structures. Main joints have life-like articulation, allowing various positioning for training
- Life size synthetic skeleton
- Hands and feet with bone trabeculae
- Lungs with pulmonary vessels
- Mediastinal space
- Liver
- Kidneys

Peadiatric Full Body Phantom

Full body phantom as R16970, but additionally with fractures that are typical for child abuse. All fractures are prepared on the left side

Item No. R16975

Training skills:
- Plain X-Ray photography and basic CT scanning
- Basic patient positioning for X-Ray and CT



Modular Full Body X-Ray Phantom

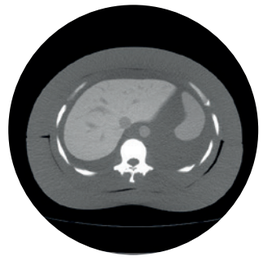
The whole body phantom is a life-size, full body anthropomorphic phantom with a state-of-the-art synthetic skeleton, lungs, liver, mediastinum and kidneys embedded in soft tissue substitute. Movable joints allow basic positioning for plain X-Ray and training/research applications can be enriched by disassembling the phantom into 10 individual parts (head, limbs and trunk). There are no metal parts or liquid structures.

Patient positioning:
- Right shoulder rotates sideways, abducting to a horizontal position.
- Left shoulder rotates forward, up to a horizontal position.
- Elbows bend inward to approx. 90 degrees.
- Hip joints rotate forward up to 90 degrees, then rotate outward up to 45 degrees, respectively.
- Knees bend to approx. 90 degrees.
- The phantom can be held in the supine frog leg position.
- The limbs and head are detachable at joints and neck for wider applications.
- The head supporter facilitates various head positions.

Item No. R16900

Anatomy:

- Life size synthetic skeleton
- Hands and feet with bone trabeculae
- Lungs with pulmonary vessels Mediastinal space
- Movable Hip, Knee, and Elbow Joints
- Liver
- Kidneys



Fractured Hand with Forearm

Hand with forearm with bone fractures for X-Ray diagnostics. Can be exchanged for the standard forearm of the R16900 X-Ray phantom. Of course, the forearm with hand can also be used without the phantom.

Item No. R16900-1

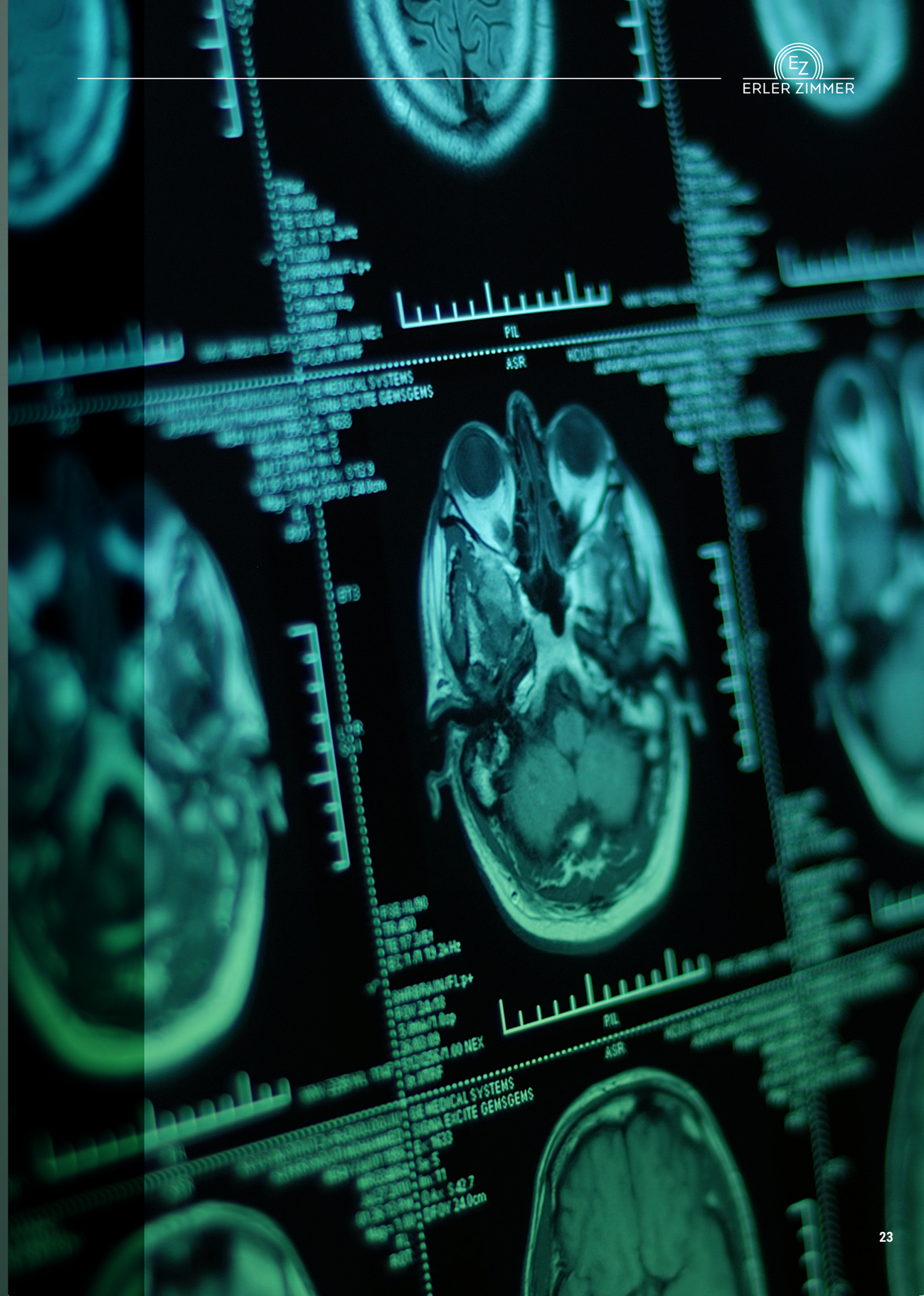
Body shells for adult X-Ray Phantom

Body shells for R16900 to simulate a person with a BMI of 30 or 40.

BMI of 30
Item No. R16900-2

BMI of 40
Item No. R16900-3

Computer Tomography



Whole Body CT Phantom

A unique, life size whole body phantom for CT provides a variety of educational application as well as visual evaluation in finding out optimal scanning conditions. The phantom can also be used for plain X-Ray, showing life-like images. No metal parts or liquid structure are used. Main joints have close-to human articulation, allowing various positioning for training. The phantom can be disassembled into 10 parts. Improved shoulder joint system enables the phantom to take arm-up position. Organs are anatomically correct and have appropriate HU numbers.

Item No. R16950

Anatomy:

- Head and Trunk
- Synthetic skull
- Cervical vertebrae
- Brain
- Vertebrae
- Clavicles
- Ribs
- Sternum
- Scapula
- Coxal bones
- Femurs
- Lungs with pulmonary vessels
- Trachea
- Liver with portal and hepatic veins
- Pancreas
- Kidneys
- Gallbladder
- Spleen
- Aorta
- Vena Cava
- Ureter
- Urinary bladder
- Prostate
- Rectum
- Sigmoid Colon

Patient positioning:

- Shoulders: rotate through a full 360 degrees in the sagittal plane, approx. 180 degrees to side-ways.
- Hip joints: rotate forward up to approx. 90 degrees, then abduct up to 45 degrees each.
- Knees: bend up to approx. 90 degrees.
- Elbows: bend up to approx. 90 degrees.
- The phantom can be held in the supine frog leg position.
- The limbs and head are detachable at joints and neck for wider applications.
- The head supporter facilitates various head positions.

Phantom materials:
Radiology absorption and Hounsfield number approximate to human body.

CT Whole Body Phantom with Pathologies

Combine theory with practice with pathological findings in this hands-on training phantom. Based on the CT Whole Body Phantom R16950 this phantom offers a variation of pathologies. The phantom can be separated into 10 parts.

Item No. R16955

Pathologies:

- Brain tumor
- Subarachnoid hemorrhage
- Pulmonary tumor
- Hepatic tumor
- Pancreatitis
- Gall stone
- Kidney stone
- Appendicitis
- Spondylolisthesis

CT Newborn Whole Body Phantom

It can be used for CT and plain X-Ray, Dosimetry, Autopsy imaging and positioning. It has the HU of an average newborn, a hole for an ion chamber, a clenched left hand an open right hand. The limbs rotate 360°.

Item No. R16988

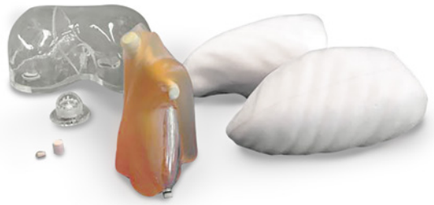
Anatomy:

- skull
- spine
- clavicles
- scapulae
- ribs
- humerus
- radius
- ulnae
- hand bones
- femora
- tibiae
- fibulae
- foot bones
- pelvis
- lungs

Chest Phantom for X-Ray and CT

This multipurpose training model can be used for training in X-Ray and Computer Tomography. It is suitable for training of making radiographs as well as for image interpretation training. Additionally it can be used for assessment of X-Ray and CT systems. All model structures are made of materials that have X-Ray absorption rates close to human tissue. The model can be opened and artificial tumors can be inserted into the lung. 15 different tumors are supplied with the model.

Item No. R16511



Components for Radioisotope

The set of RI container inserts can be set in the chest phantom in place of the standard inserts allowing wider research applications including PET/CT fusion evaluation.

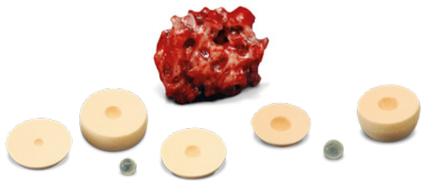
Lungs of urethane
Item No. R16511-1

Liver RI
Item No. R16511-2

Gallbladder RI
Item No. R16511-3

Pulmonary nodule RI
Item No. R16511-4

Mediastinum with left myocardium RI
Item No. R16511-5



Subsolid Nodules Simulation Set

The Subsolid Nodules Simulation Set is a set of simulated nodules designed for study and training in Ground-Glass Opacity (GGO) detection and interpretation. Both mixed and pure GGO are provided in a variety of sizes and HU numbers. The set also includes 3D GGO modelled on clinical CT data. The simulated nodules can be attached to the pulmonary vessels on the chest phantom R16511.

No. 1-7, concentric
Item No. R16511-6

No. 8-10, eccentric
Item No. R16511-7

No. 11-12, eccentric
Item No. R16511-8

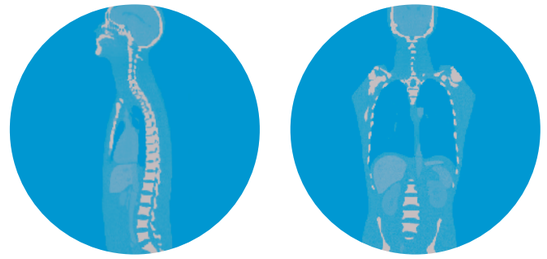
No. A-H, pure GGO
Item No. R16511-9

3D GGO
Item No. R16511-10

Additional shells for R16511

For simulating an overweight patient for upper body phantom R16511. The shells simulate an overweight patient weighing 82 kg (BMI 29).

Item No. R16510-1



CT Torso Phantom

This one-piece torso phantom features realistic anatomy and detailed organ structures with accurate Hounsfield values, enabling various CT scans including helical mode. It includes synthetic bones, brain with ventricles, lungs with 3D vessels, and major abdominal and pelvic organs. Made from tissue-equivalent material, it allows scanning under realistic clinical conditions—ideal for education, training, and system testing.

Item No. R16512

CT Abdomen Phantom

This upper abdomen phantom provides CT images close to clinical data and features detailed organs with realistic Hounsfield values. It includes liver, kidneys, pancreas, spleen, major vessels, and synthetic bones. Contrast-enhanced structures are available on request.

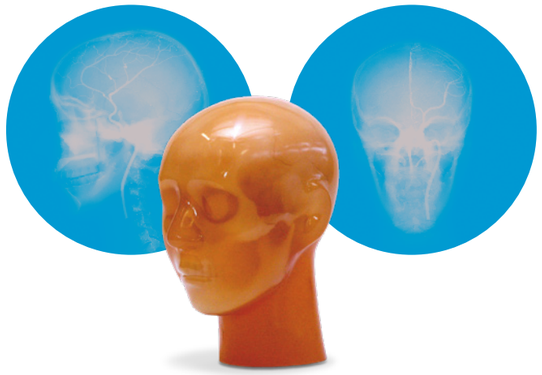
Item No. R16513

Pediatric Chest Phantom

Imaging and dosimetry for radiosensitive 5-year-old. Chest X-Ray is one of the most common examinations in pediatric radiography. This Pediatric Chest Phantom is designed to find out optimal parameter and protocols to minimize radiation exposure to children.

The phantom has two kinds of interchangeable lung inserts. The lung vascular insert can be used to study image quality in relation to CT/X-Ray protocols. The lung density insert allows users to evaluate dosage distribution in the lung field.

Item No. R16515



Angiographic head model

This model consists of a synthetic human skull which is embedded in a plastic head. In the left half of the skull the anterior and middle cerebral artery are represented and filled with contrast medium. The diameter of the arteries range from 0.5 mm to 4 mm.

Item No. R16520

Lung Cancer Screening Model

This CT phantom is designed for optimizing radiation dose and scanning conditions in lung cancer screening with Helical CT or MDCT. It supports early detection of small lesions like GGOs, which are hard to detect on X-Ray. The realistic anatomy enables visual and quantitative evaluation, combining life-like imaging with dose and density analysis in a single scan.

Item No. R16532

Radiation Therapy Phantom

This phantom is developed for the treatment planning and machine adjustment in the radiation therapy. The body consists of 3 cm slices with a 3 x 3 cm hole matrix for inserting glass dosimeters. The model material has a natural radioparency allowing the correct adjustment of the machines. This makes it ideal for planning and machine adjustment. The phantom has a holding and fixation frame which allows to position the phantom exactly.

Item No. R16531

Radiation therapy phantom child
Item No. R16533

CT Prostate Phantom

T Resourceful model for therapy planning for prostate cancer.

Anatomy

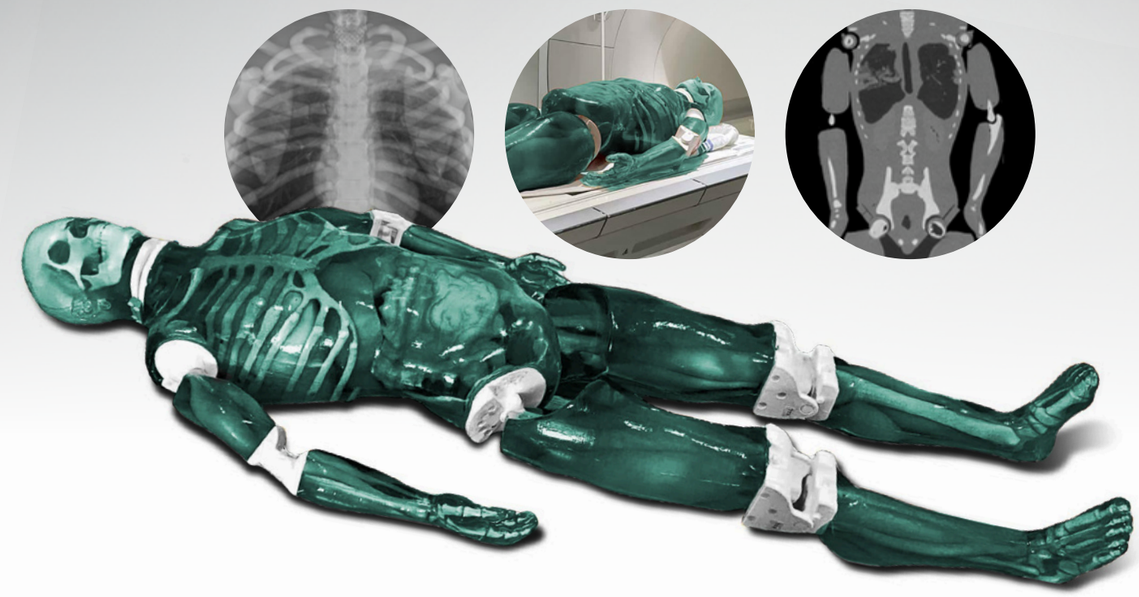
Organs: prostate, urinal bladder with simulated internal fluid, seminal vesicles and rectum.
Bones: L4, L5, pelvis and femurs (partial).
Specifications
Set Includes: 1 prostate phantom

Item No. R16592

CT Knee Ligament Phantom

Detailed Knee anatomy with HU of each bone, cartilage and ligament. This anthropomorphic knee phantom allows the visualization of ligaments and cartilage. Close-to-human radiation absorption and HU for each anatomical structure as well as realistic artifacts. It shows femur, tibia, fibula, articular cartilage of patella, meniscus, cruciate ligament, medial collateral ligament, fibular collateral ligament and articular cartilage. Can be used for CT and plain X-Ray.

Item No. R16593



Adult Full Body Imaging Phantom

The primary application of this phantom is to train and demonstrate various patient positioning techniques in radiology. Other uses include hands-on experience with diagnostic imaging techniques and visual evaluation to find optimal scanning conditions.

In terms of MRI applications, the phantom tissues have realistic T2 relaxation time values, which makes this product the best fit for any T2-weighted MRI imaging methods. Very good results can also be achieved with proton-density imaging methods.

The phantom can still be imaged with T1-weighted methods, but the T1 values are less realistic, and they are within the range of about 100 ms.

The model of this phantom is based on an adult male body that weighs about 70 kg (154 lb) and measures 172 cm (69 in) in height.

The skeleton is built from individually cast bones with a realistic three-layered structure with inner porosity. The properties and structures of the bones can be adjusted according to the requirement of the particular project. Upon request, the phantom is customizable with different pathologies such as lesions, tumors, infections, and abnormalities.

Anatomy:

- Full Human Body (10 Parts)
- Realistic Body and Muscle Tissue-Mimicking Material
- Rotatable Shoulders (360° Around and 180° Sideways)
- Movable Hip, Knee, and Elbow Joints
- Detachable Head, Torso, and Limbs
- Adult Head
- Adult Torso
- Adult Arms
- Adult Legs

Suitable for X-Ray, CT and MRI,
with muscles
Item No. FLB02

Suitable for X-Ray/CT and Ultrasound,
without muscles
Item No. FLB03

Suitable for X-Ray/CT and Ultrasound,
with muscles
Item No. FLB04

Pediatric Full Body Imaging Phantom

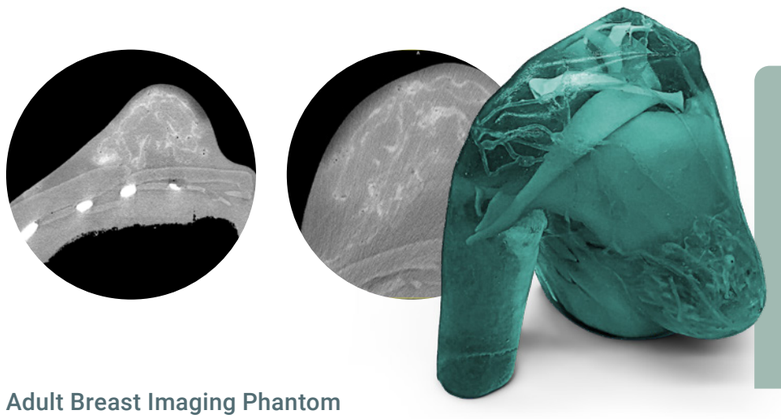
Anatomy:

- Pediatric Full Body
- Realistic Body Tissue
- Shoulders Rotatable 360 Degrees Aroundand 180 Degrees Sideways
- Moveable Hip Joints, Knees, and Elbows
- Detachable Head, Torso, and Limbs
- Customizable with Different Pathologies (Lesion, Tumor, Infection, etc.)
- Transparent or Skin-Colored Appearance
- Pediatric Human Head
- Pediatric Human Torso
- Torso Organs
- Pediatric Human Arms
- Pediatric Human Legs

The design of this phantom is based on the model of a 4-year-old child 40" (102 cm) in height. This phantom is a life-size, full-body anthropomorphic phantom with anatomically correct organs and realistic bones constituted in 10 body parts. The phantom weighs about 20 kg and can be used for visual evaluation in finding out optimal scanning conditions. The skeleton is built from individually cast bones made from a patented epoxy-based composite material.

Suitable for X-Ray, CT and MRI
Item No. FLP01

Suitable for X-Ray/CT and Ultrasound
Item No. FLP02



Adult Breast Imaging Phantom

Anatomy:

- Partial Ribs and Cartilage
- One Lung
- Major Fat Tissues
- Major Muscles
- Axillary Lymph Nodes
- Subcutaneous Adipose
- Retromammary Adipose
- Mammary Glands
- Two Spherical Tumors

The Adult Breast is a realistic phantom that is designed around the average anatomy of a female breast, and it has all the essential bones and organs. This phantom is ideal for studies, research, and testing of medical imaging devices. It is a life-size female breast phantom with all bony and major organ structures. The breast can be used to study several diagnostic procedures in different orientation and positioning techniques. Upon request, this product can be customized with different pathologies and for specific training applications.

Suitable for X-Ray, CT and MRI
Item No. FLT01

Suitable for X-Ray/CT and Ultrasound
Item No. FLT02

Adult Torso Imaging Phantom

Anatomy:

- Complete Spine
- Complete Ribcage
- Shoulders & Clavicles
- Pelvis
- Partial Femur Bones
- Trachea
- Heart
- Lungs
- Diaphragm
- Liver
- Gallbladder
- Stomach
- Kidneys
- Spleen
- Pancreas
- Large and Small Intestines
- Bladder
- Prostate

Adult Torso for X-Ray CT, Ultrasound is designed based on an average anatomy of an adult healthy human male. It is compatible with X-Ray/CT and Ultrasound. The skeleton is made from individually cast bones from a realistic patented epoxy-based composite material with vertebrae that have a realistic three-layered structure with inner porosity. An ideal phantom for training ultrasound technicians and other medical students.

Item No. FLU02

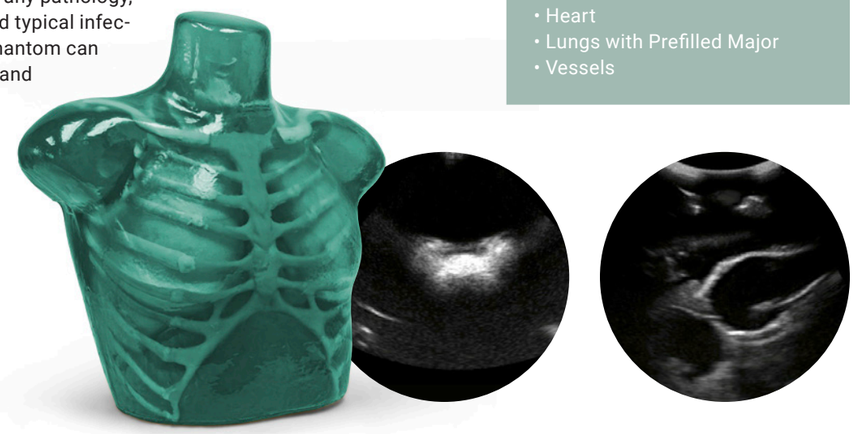
Adult Chest Imaging Phantom

Anatomy:

- Spine with Porous Inner
- Structure
- Complete Ribcage
- Shoulders and Clavicles
- Trachea
- Heart
- Lungs with Prefilled Major
- Vessels

This phantom is based on an average human anatomy and its skeleton is individually cast from a realistic patented bone material that is suitable for X-Ray/CT and Ultrasound applications. It can be used for medical imaging research and radiology training and can also be served as a customized tool for equipment testing and calibration. The vertebrae have a realistic three-layered structure with inner porosity, which can be djusted according to the requirement of the particular project. The lungs installed inside this torso can be customized in several ways to simulate any pathology, such as mucus, lesions, and typical infections. Upon request, this phantom can also be customized in size and shape (i.e. based on the individual's CT scan).

Item No. FLX02



Erler-Zimmer Nature Line CT-Phantoms

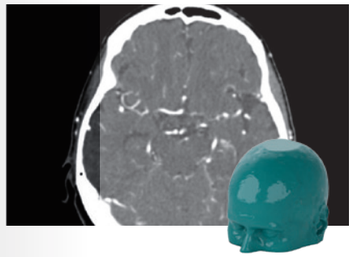
Are created from real human patient data and are manufactured with latest technology. Bone and soft tissues are accurately represented with realistic Hounsfield units for all tissues at 120 kVp tube voltage CT imaging. If the phantom is primarily required for CT imaging at different tube voltages (e.g., 100 kVp), the calibration of Hounsfield units can be adapted accordingly upon request. The phantom also yields realistic tissue contrast in X-Ray imaging. Air voids are filled with a cellulose-polymer composite of approximately -80 Hounsfield units.

Exclusive at Erler-Zimmer!

Head CTA

Extremely realistic simulation of a head and neck CT angiography. The phantom has no significant vascular pathologies.

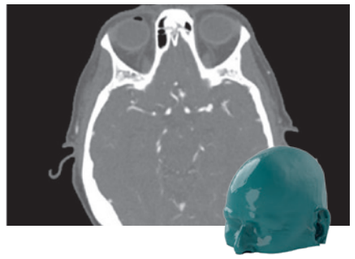
Item No. NLP1000



Head CTA aneurysm

The phantom has three intracranial aneurysms of the middle cerebral artery (MCA), anterior communicating artery (ACoA), and the basilar artery.

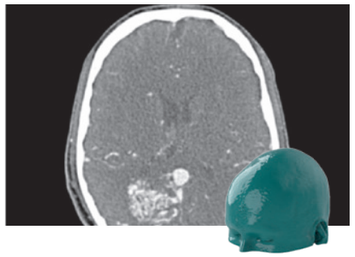
Item No. NLP1510



Head CTA AVM

The right hemisphere of the phantom has an arteriovenous malformation.

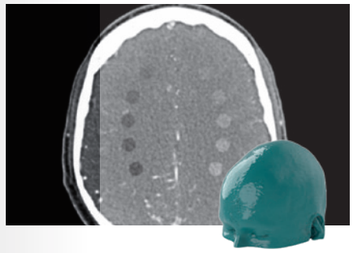
Item No. NLP1520



Head CTA AVM/lesion

The phantom has 10 low-contrast lesions in the centrum semiovale and the right hemisphere has an arteriovenous malformation.

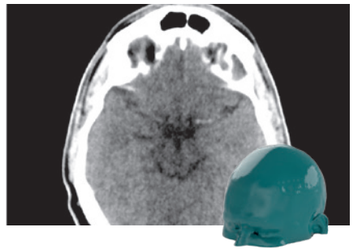
Item No. NLP1530



Head Stroke/Bleed

This phantom simulates a head with stroke and bleeding patterns. It covers the vertex to the foramen magnum.

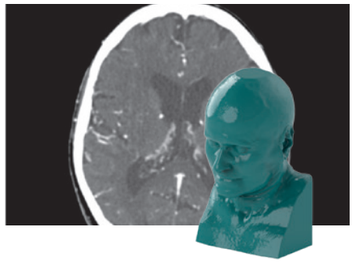
Item No. NLP1540



Head/Neck CTA

The interncal carotid artery has calcifications on both sides with moderate stenosis on the right side. No significant vascular pathologies.

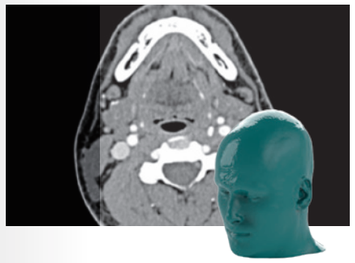
Item No. NLP1600



Head/Neck CTA AVM

Simulates a contrast medium enhanced head in arterial phase. The right hemisphere has an arteriovenous malformation.

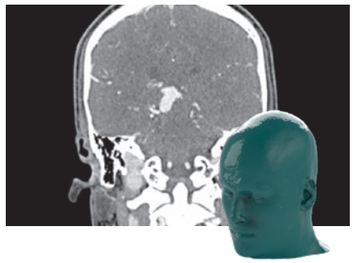
Item No. NLP1610



Head/Neck CTA AVM/lesion

The phantom has 10 low-contrast lesions in the centrum semiovale and the right hemisphere has an arteriovenous malformation.

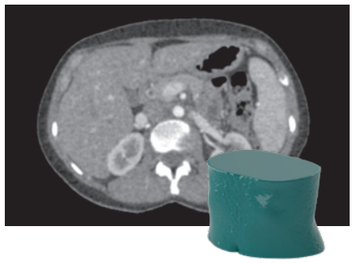
Item No. NLP1620



Abdomen arterial phase

Simulates a contrast medium enhanced abdomen in arterial phase. It covers the eleventh thoracic vertebra to the fourth lumbar vertebra.

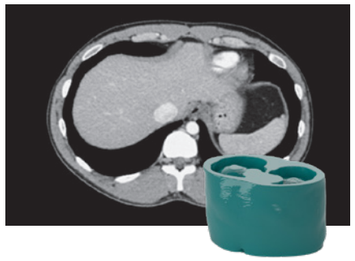
Item No. NLP1100



Abdomen portal venous phase

Simulates a contrast medium enhanced abdomen in portal venous phase. It covers the eleventh thoracic vertebra to the fourth lumbar vertebra.

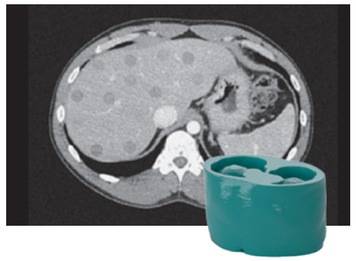
Item No. NLP1710



Abdomen low-contrast spheres

The phantom has 42 spherical liver lesions with 8 and 12 mm diameter and lesion contrasts of 10, 20, 30 and 40 HU to the surrounding liver.

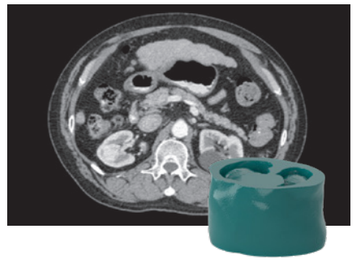
Item No. NLP1720



Abdomen cirrhosis

The phantom represents an abdomen after cholecystectomy with small clips.

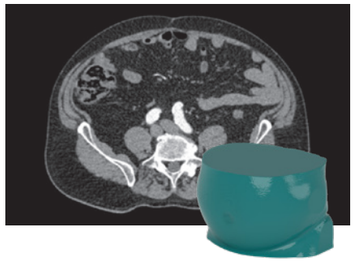
Item No. NLP1730



Abdomen aortic aneurysm

This phantom simulates a contrast medium enhanced abdomen in arterial phase. It has an infrarenal abdominal aortic aneurysm.

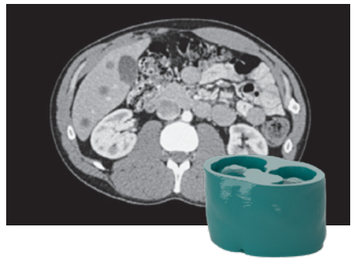
Item No. NLP1740



Abdomen mixed cylinders

The phantom has 35 rod-shaped liver lesions with 5 to 15 mm diameter and lesion contrasts of 25 to 110 HU to the surrounding liver.

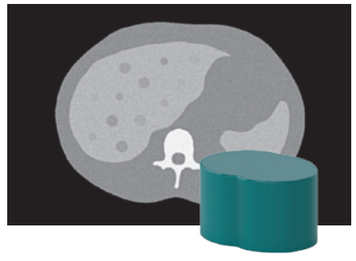
Item No. NLP1750



Uniform Abdomen low-contrast

The phantom has 64 spherical lesions in the liver with 8 and 12 mm diameter and lesion contrasts of 10, 20, 30 and 40 HU to the surrounding liver.

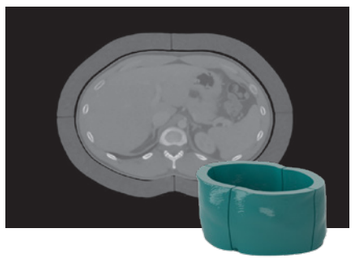
Item No. NLP1760



2.5 cm fat ring for Abdomen

This 2.5 cm thick fat ring is made of adipose tissue equivalent material and can be mounted around abdomen phantoms for scanning.

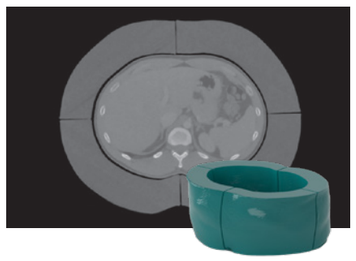
Item No. NLP1775



5 cm fat ring for Abdomen

This 5 cm thick fat ring is made of adipose tissue equivalent material and can be mounted around abdomen phantoms for scanning.

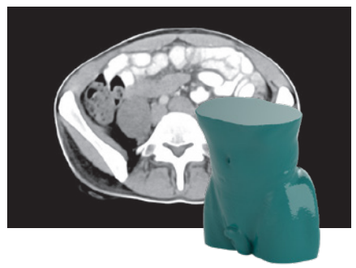
Item No. NLP1780



Abd./Pelvis portal venous phase

Simulates a contrast medium enhanced abdomen and pelvis in portal venous phase. It has iliac lymph node masses on the right side.

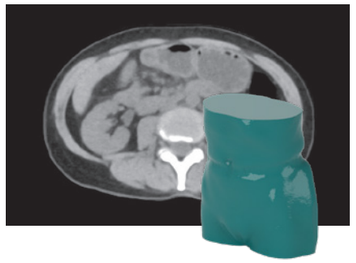
Item No. NLP1800



Abdomen/Pelvis native

Simulates an abdomen and pelvis without intravenous contrast (native). It has a pancreatic mass and liver lesions.

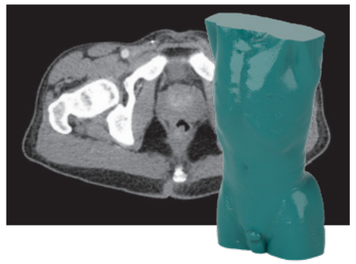
Item No. NLP1810



Torso portal venous phase

Simulates a contrast medium enhanced thorax, abdomen and pelvis in portal venous phase. It has iliac lymph node masses on the right side.

Item No. NLP2000



Pediatric Torso 1-year-old

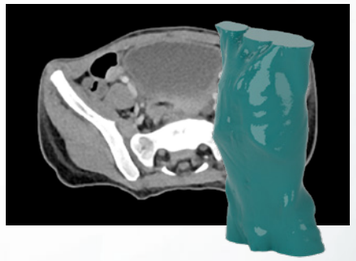
This phantom simulates a 1-year-old child's contrast medium enhanced thorax, abdomen and pelvis in portal venous phase.

Item No. NLP3000

Pediatric Torso 3-year-old

This phantom simulates a 3-year-old child's contrast medium enhanced thorax, abdomen and pelvis in portal venous phase.

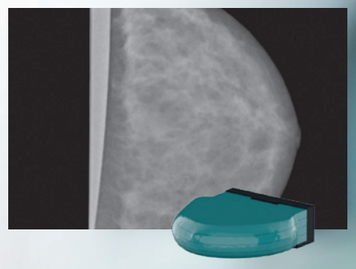
Item No. NLP3050



Breast mass and calcifications

This breast phantom simulates a compressed breast. It is composed of four slabs that are held together by a magnetic mount.

Item No. NLP1400



Hand metacarpal fractures

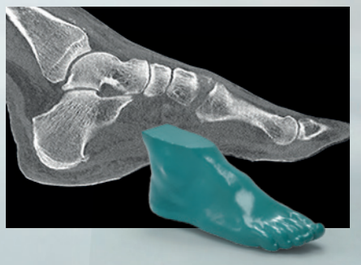
Right hand with two metacarpal fractures. It covers the entire hand including fingers, metacarpus, carpus and the distal parts of the ulna and radius.

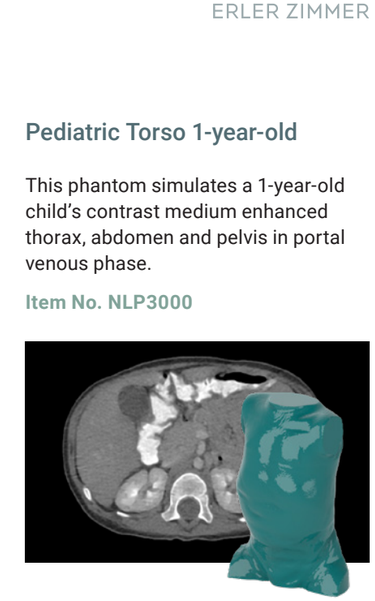
Item No. NLP1300

Foot metatarsal fractures

Right foot with non-displaced fractures of metatarsals II–IV. It covers the entire foot including toes, metatarsus, tarsus, and distal tibia/fibula.

Item No. NLP1310





Stomach Phantom

Stomach phantom for double contrast gastrography. This life-size distended stomach with pathologies is modelled from real specimens. Barium can be filled into the stomach for imaging. Pathologies include early cancer and gastric ulcer.

Item No. R16901

CT Colonography Phantom

Innovative study tool for safe and effective CT colon screening. Cylindrical colon units with targets that represent polyps can be set at the position of ascending colon, descending colon and rectum in the life-size lower torso phantom. The phantom includes four types of colon units for evaluation. Each unit has six targets lining in sequence on the inner wall of the unit. Contrast agent can be filled into the colon units for tagging. Pencil shaped ion chambers can be inserted in the center of the phantom for CTDI measurement. The phantom is suitable for virtual colonography, visualization and detection of targets, study on optimal dose for low dose CT colonography, evaluation of accuracy of measurement (size, volume) and for studying the optimal density of contrast media.

Item No. R16903

Multi-Energy Ct Quality Assurance Phantom

Water Equivalent Material phantom (300x200x180mm) enables Multi-Energy CT settings verification. It allows inserting various test items, saving time on custom water phantoms. Suitable for ME-CT image analysis, metal artifact reduction, and contrast media reduction. It evaluates uniformity, SNR, image contrast, and CTDI.

Larger size (363 x 262 x 180 mm)
Item No. R16904

Smaller size (300 x 200 x 180 mm)
Item No. R16905

Multi Slice CT Phantom MHT

This phantom can be used for features of CT evaluation such as high and low contrast resolution, feed direction and CTDI. The non-aqueous/easy setup allows a liquid-free evaluation session. This phantom is designed to allow evaluation in volume scanning . The evaluation parameters are: CTDI, contrast resolution, sensitivity profile, CNR, effective slice thickness and SSPz.

Item No. R16912

Ladder Phantom

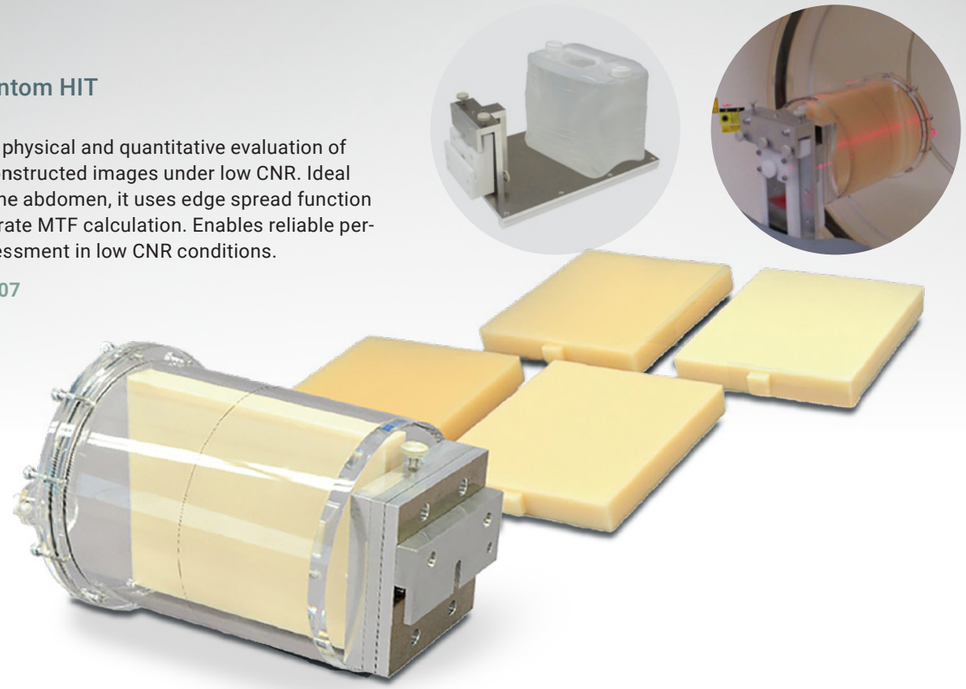
Evaluation of spatial resolution if simulated contrast enhanced vessels in CT. In each of the 5mm thick plates of this phantom there are 5 slits of 5mm length to represent vessels. Nine variations of vessel width are included and can be used in the phantom. The phantom can be used for evaluation of spatial resolution of simulated contrast enhanced vessels in CT.

Item No. R16914

CT ERF Phantom HIT

A phantom for physical and quantitative evaluation of iteratively reconstructed images under low CNR. Ideal for areas like the abdomen, it uses edge spread function (ESF) for accurate MTF calculation. Enables reliable performance assessment in low CNR conditions.

Item No. R16907



CT-AEC Phantoms

Four phantoms evaluate CT-AEC performance: the Cone Phantom tests AEC across patient sizes, the Elliptical Cone Phantom assesses XY AEC, the Variable-XY Phantom evaluates XY AEC with shape changes, and the Stepped Phantom tests AEC response to cross-section shifts. Image quality is analyzed via noise and standard deviation.

Cone
Item No. R16915-1

Elliptical Cone
Item No. R16915-2

Variable-XY
Item No. R16915-3

Stepped
Item No. R16915-4

Complete Set
Item No. R16915

Tomosynthesis Phantom NS

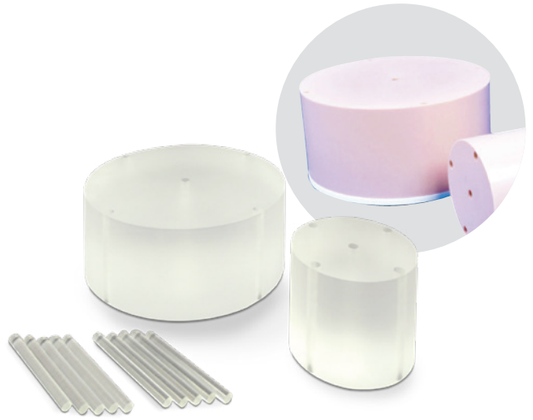
Allowing evaluation of reconstruction slices and uniformity in the measurement of slice thickness through showing the images numerically and graphically. It comes with three units, one for verification of reconstruction interval, one for slice thickness and one for uniformity.

Item No. R16908

CT-DI Phantom

A set of CTDI-100 phantoms for dose consistency testing, conforming to 21CFR1020.33, IEC61223-3-5:2004, and IEC61223-2-6:2006.The set includes adult head, adult body, and paediatric body phantoms. Used to evaluate CT dose index (CTDI) and dose profile.

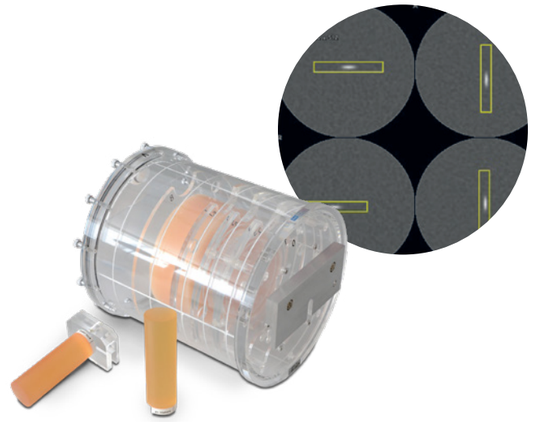
Item No. R16910



CT QA Phantom JCT II

Improved CT QA phantom for initial commissioning and periodic quality checks. Compatible with JIS Z 4752 and IEC standards, it supports evaluation of slice thickness, spatial resolution, low contrast resolution, noise, and mean CT number.

Item No. R16911



Bone Scintigraphy Quality Assurance Phantom

An innovative QA phantom for Bone Scintigraphy, SPECT/CT, and NaF-PET. It simulates the thoracic or lumbar region by adjusting side cavity fillings. Supports visual and quantitative evaluation, including tumor detectability, contrast, resolution, and correction verification.

Item No. R16906

Digital Mammographic Phantom NCCE (fall)

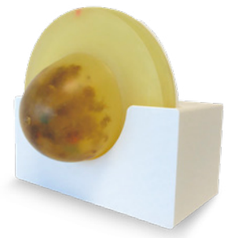
This phantom evaluates CT-AEC performance by assessing image quality via noise and standard deviation. It simulates a D cup-sized breast with targets like microcalcifications, acrylic disks, an aluminum ring, Teflon disks, and a 21-step resolution chart (0–400 mg/cm² hydroxyapatite).

Item No. R16919

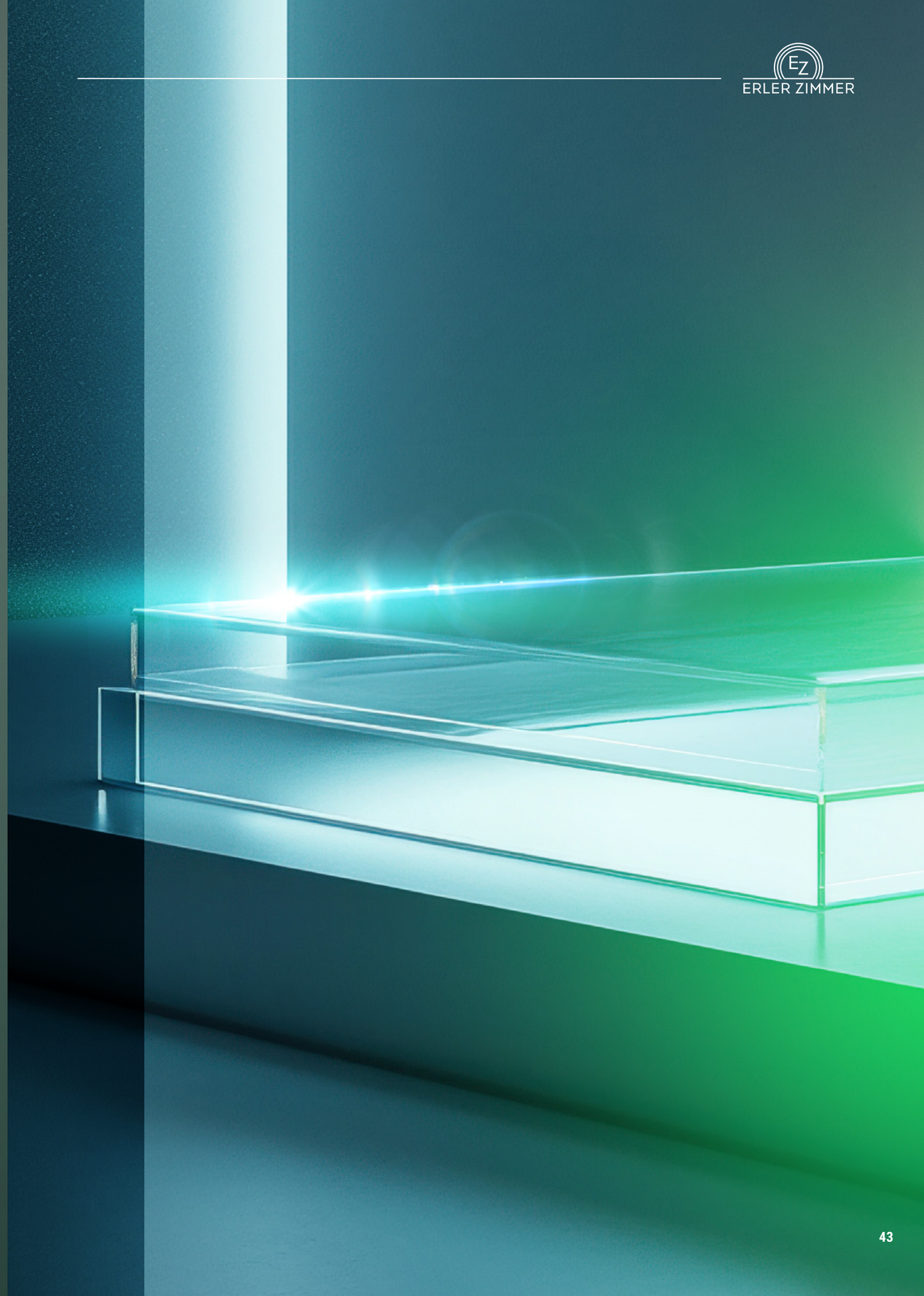
Compressible Mammographic Phantom

This soft material phantom allows breast compression up to 140N for realistic mammography and tomosynthesis, ideal for training and quality assurance. It features simulated targets (2–10mm) in high and low densities, across three levels, with pathology adjustable by rotation.

Item No. R16619



Test Specimens



Tough Water Phantom

Human tissue substitute phantom with water equivalent physical properties.

300 x 300 x 2 mm	Item No. R16921A
300 x 300 x 3 mm	Item No. R16921B
300 x 300 x 5 mm	Item No. R16921C
300 x 300 x 10 mm	Item No. R16921D
300 x 300 x 15 mm	Item No. R16921E
300 x 300 x 20 mm	Item No. R16921F
300 x 300 x 25 mm	Item No. R16921G
300 x 300 x 30 mm	Item No. R16921H
300 x 300 x 40 mm	Item No. R16921I
300 x 300 x 50 mm	Item No. R16921J
400 x 400 x 2 mm	Item No. R16921K
400 x 400 x 3 mm	Item No. R16921L
400 x 400 x 5 mm	Item No. R16921M
400 x 400 x 10 mm	Item No. R16921N
400 x 400 x 15 mm	Item No. R16921O
400 x 400 x 20 mm	Item No. R16921P
400 x 400 x 25 mm	Item No. R16921Q
400 x 400 x 30 mm	Item No. R16921R
400 x 400 x 40 mm	Item No. R16921S
400 x 400 x 50 mm	Item No. R16921T

Tough Bone Phantom

Human bone substitute phantoms to simulate body structure in combination with R16921 and R16923.

Compact bone

200 x 200 x 5 mm	Item No. R16922A
200 x 200 x 10 mm	Item No. R16922B
200 x 200 x 20 mm	Item No. R16922C

Cortical Bone

200 x 200 x 5 mm	Item No. R16922D
200 x 200 x 10 mm	Item No. R16922E
200 x 200 x 20 mm	Item No. R16922F
300 x 300 x 5 mm	Item No. R16922J
300 x 300 x 10 mm	Item No. R16922K
300 x 300 x 20 mm	Item No. R16922L

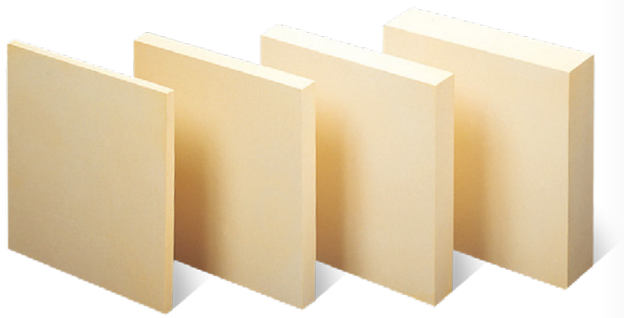
Inner Bone

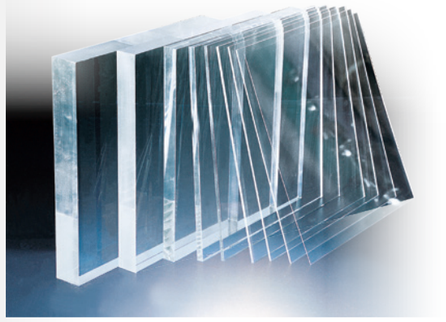
200 x 200 x 5 mm	Item No. R16922G
200 x 200 x 10 mm	Item No. R16922H
200 x 200 x 20 mm	Item No. R16922I
300 x 300 x 5 mm	Item No. R16922M
300 x 300 x 10 mm	Item No. R16922N
300 x 300 x 20 mm	Item No. R16922O

Tough Lung Phantom

Human lung substitute phantoms to simulate body structure in combination with R16921 and R16922.

300 x 300 x 10mm	Item No. R16923A
300 x 300 x 20mm	Item No. R16923B
300 x 300 x 30mm	Item No. R16923C
300 x 300 x 50mm	Item No. R16923D

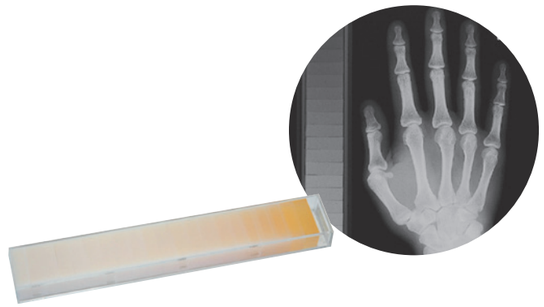




Acrylic Phantom XAC

Slab phantom for radiation absorption and scattering measurement.

300 x 300 x 1 mm	Item No. R16925A
300 x 300 x 2 mm	Item No. R16925B
300 x 300 x 3 mm	Item No. R16925C
300 x 300 x 4 mm	Item No. R16925D
300 x 300 x 5 mm	Item No. R16925E
300 x 300 x 8 mm	Item No. R16925F
300 x 300 x 10 mm	Item No. R16925G
300 x 300 x 20 mm	Item No. R16925H
300 x 300 x 30 mm	Item No. R16925I
300 x 300 x 40 mm	Item No. R16925J
300 x 300 x 50 mm	Item No. R16925K
300 x 300 x 80 mm	Item No. R16925L
300 x 300 x 100 mm	Item No. R16925M



BMD Chart Phantom UHA

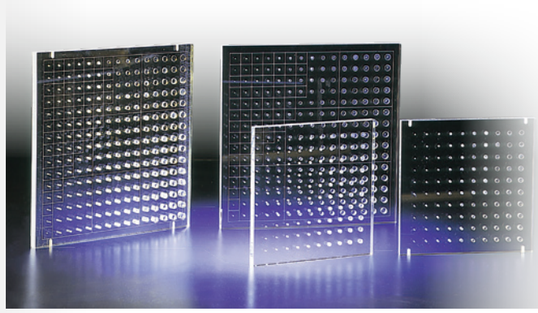
Bone Mineral Density chart for microdensitometry (MD). 21 steps with different hydroxyapatite content.The steps range from 0 to 400 mg/cm, with 20 mg/cm difference each.

Item No. R16920

Water Body Phantom WAC

The water body phantom represents a human chest or abdomen to serve as radiation absorber and scatterer.

Item No. R16924



Contrast Detail Phantom

This phantom is used for image evaluation in plain X-Ray.

15 x 15 holes of depth range 1,0 to 8,0 mm
Item No. R16926A
10 x 10 holes of depth range 1,0 to 5,5 mm
Item No. R16926B
15 x 15 rods of height range 1,0 to 8,0 mm
Item No. R16926C
10 x 10 rods of height range 1,0 to 5,5 mm
Item No. R16926D

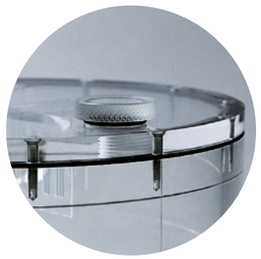
Magnetic Resonance Imaging and Dynamic Phantoms

MRI Quality Assurance Phantoms

This QA phantom for MRI allows to evaluate the slice thickness, spatial resolution, uniformity and geometric distortion as well as contrast. The Uniformity is maintained under the high magnetic field of 3.0 Tesla. The Uniformity provides high precision evaluation for other parameters. There are two types of this phantom.

MHR Version
Item No. R16927

JMR II Version
Item No. R16928



Evaluation Parameters:

MHR Version
- Signal to Noise ratio (SNR)
- Image Uniformity
- RF uniformity
- Spatial resolution
- Spatial linearity (Image distortion)
- Slice thickness
- Slice position / separation
- mage contrast
- Image artifact

JMR II Version
- Signal to Noise ratio (SNR)
- Image Uniformity
- Slice Thickness
- Spatial resolution
- Geometric distortion
- Ghost artifact
- Image contrast

MRI Head Phantom NH

This life-size head phantom can be used to assess uniformity. It can be used for MRI, SPECT/CT and CT. Comes with nickel chloride solution. Complies with JIS Z 4924.

Item No. R16930

MRI / NM Head Phantom BHC

Simulates life-size head images in MRI and NM. Can be used in MRI, SPECT/CT and CT. Comes with Nickel Chloride Solution.

Item No. R16931

MRI Breast QA Phantom

An innovative phantom with the shape of breasts for detailed QA in Breast MRI. It allows quantitative evaluation of breast MRI with breast coils. It has an adjustable height of the phantoms in the range of 10cm to fit the depth of the coils. The horizontal position of the phantoms can be set aribitrarily on the 30cm long slit. The test parameters are spatial resolution and quantitative evaluation of ADC on test pieces of tissue substitute.

Item No. R16929

Rotational Stomach Phantom

Rotational Stomach Phantom to simulate double contrast gastrography. It includes a rotation system to simulate the movement of the patient as well as a distended stomach with pathologies that has been modelled after real specimen. Barium can be filled into the stomach for imaging.

Item No. R16902

PET/SPECT

Brain Phantom IB-20 advanced

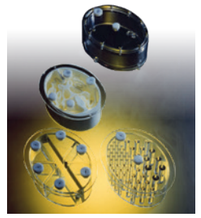
This brain phantom of the striatal region with replicated skull densities of an adult male (equivalent HU750) and an elderly female (equivalent HU530) is useful for uptake ratio calibrations and studying the I-123 DaTSCAN scatter correction techniques. The Phantom can be used in SPECT and PET.

Item No. R16933

Brain Phantom Set IB-10

This set includes a simulated skull, brain unit with artificial grey and white matter, ventricular cavities, orbits, a Jaszczak phantom, and a sectional phantom. It supports comprehensive SPECT and PET evaluations such as homogeneity, detectivity, cross calibration, spatial resolution, and gamma ray absorption.

Item No. R16934



PET/SPECT Thorax Phantom

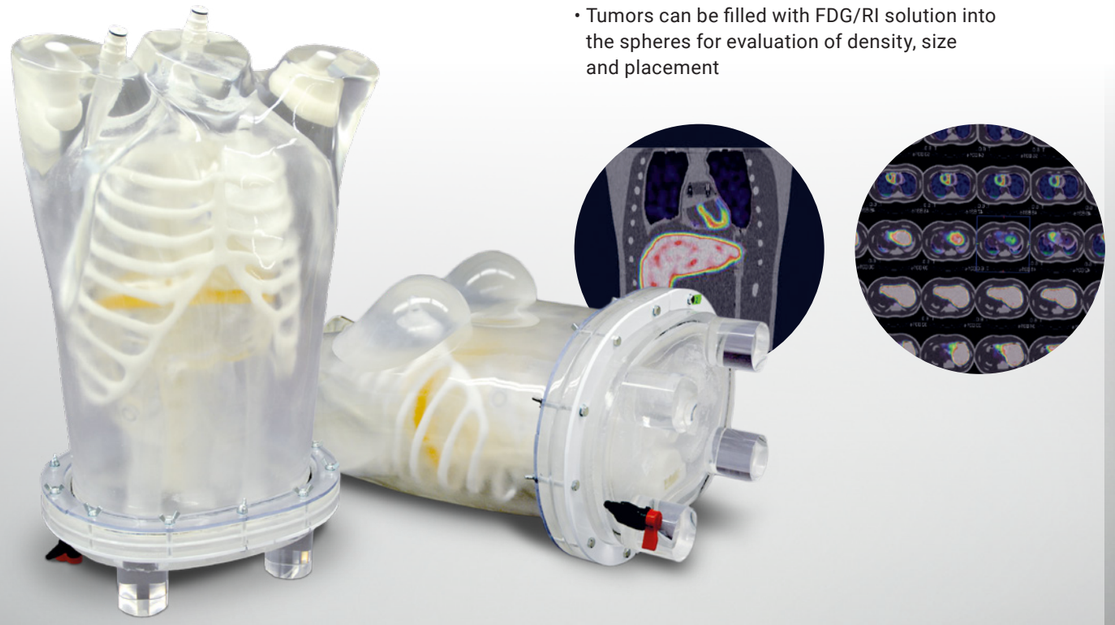
The PET/SPECT Thorax Phantom is an optimal tool for study in nuclear medicine. It allows examination of myocardial density through SPECT imaging.

Item No. R16535

- Verification of myocardial imaging with the use of various RI solution densities
- Ability to capture defects of the myocardial region
- Can reproduce image variations of the heart by injecting RI solutions in the liver, kidney and lungs

It also can be used for examination of RI solution density for simulated tumors

- The simulated tumors can be inserted into lung, liver and breast
- Tumors can be filled with FDG/RI solution into the spheres for evaluation of density, size and placement



Thyroid Phantom UN

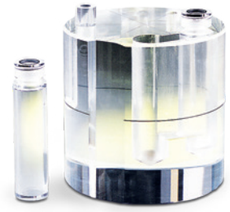
This phantom includes 5 types of thyroid glands (40, 30, 21, 17, 15cc) for measurement purposes and cervical vertebrae from C3 to C7 for scatteration. Radiopharmaceuticals can be filled into the thyroid glands to be visible by SPECT and PET.

Item No. R16936

ORINS Thyroid Phantom IST

The Oak Ridge Institute for Nuclear Studies Type phantom is used for the measurement of radionuclide uptake in the thyroid. This neck phantom contains dedicated cavities specifically designed to hold iodine-131 for accurate simulation and testing.

Item No. R16937



Myocardial Phantom HL

This phantom is designed to study liver radioaccumulation interference in myocardial SPECT. It enables evaluation of RI liver uptake effects and includes a cold defect in the left cardiac muscle. Background activity can be individually set in lungs, mediastinum, and right ventricle.

Item No. R16938

ECT HotCold Phantom SP-6

Volumetric measurement phantom for PET/SPECT.
Five sphere containers with different sizes can be filled with RI solution. Volume of sphere phantoms are:
50 mm (100%), 80%, 60%, 40% and 20%. Can be used for SPECT, PET.

Item No. R16939

SPECT QA Phantom Set

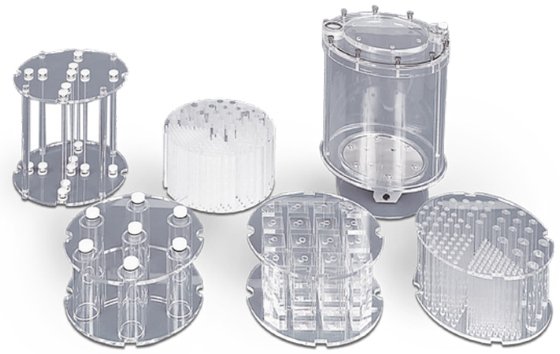
The set of test units for daily QA of SPECT/PET consists of an outer phantom, a line source phantom, a cold spot phantom, a hot spot phantom, a dose linearity phantom, and a geometric distortion phantom.

The evaluation parameters are uniformity, dose linearity, spatial resolution and image distortion

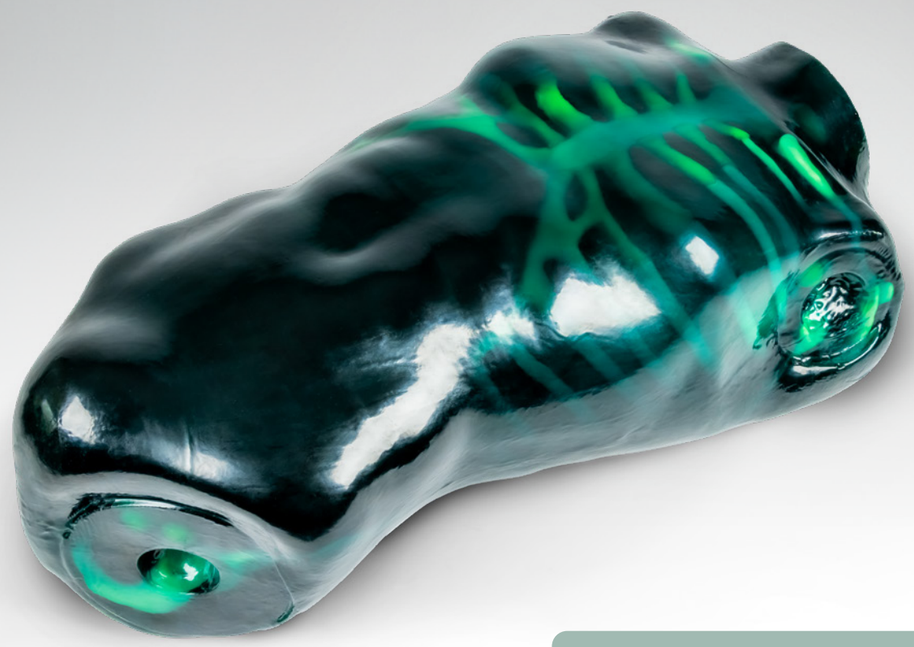
Item No. R16940

Holder and accessories
Makes the phantom suitable for your specific scanner. Please specify brand and type.

Item No. R16940A



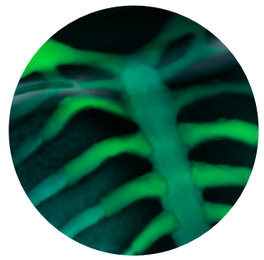
Ultrasound



Echo Eddie
Advanced Ultrasound Examination Trainer

FAST-Ultraso and Simulator-Focused Assessment with Sonography for Trauma. The Adult FAST Torso phantom, is for ultrasound imaging, with a primary focus on the FAST (Focused Assessment with Sonography in Trauma) protocol. This highly realistic phantom replicates the intricacies of the adult torso, providing practitioners with a tool for refining their diagnostic skills. Specifically tailored to replicate trauma scenarios, it offers practitioners a lifelike environment to master the FAST protocol by identifying its various pathologies.

Item No. 9100



The phantom is comprised of 3D-printed plastic bones. It also includes organs made from ultrasound-compatible tissue-mimicking material. Pathologies included in this phantom make it a great tool for FAST training.

Anatomy:

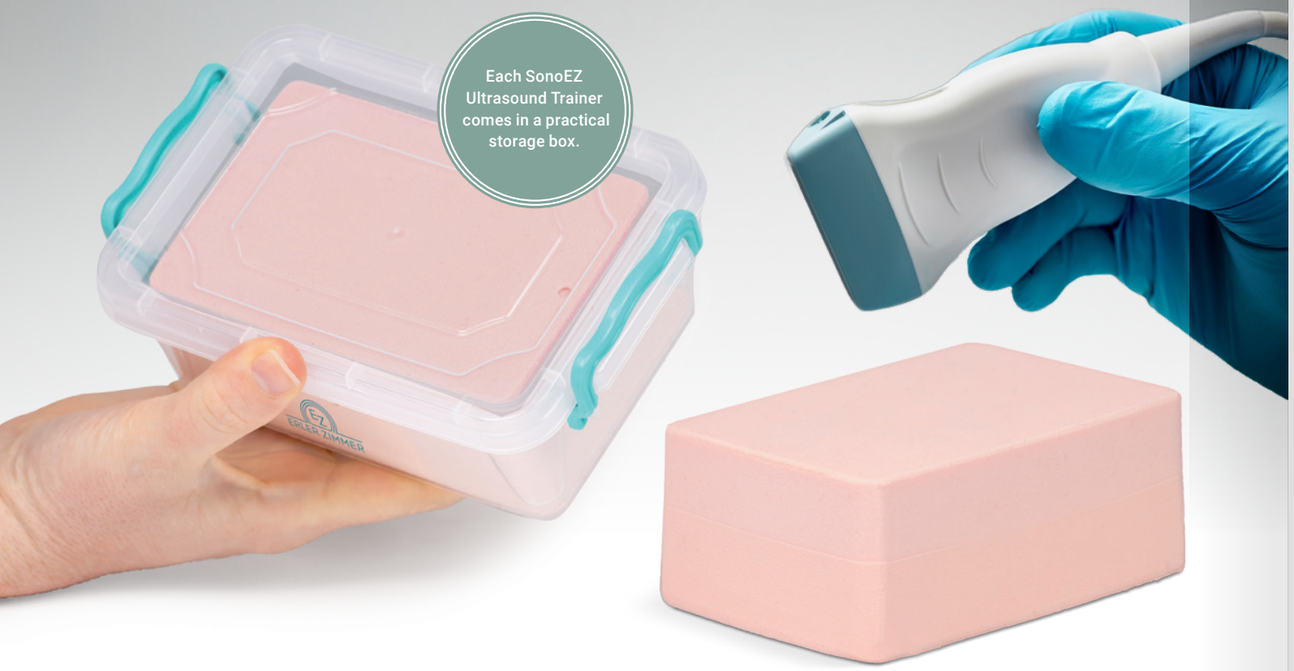
3D Printed Plastic Bones:
- Complete Spine
- Complete Ribcage
- Shoulders and Clavicles
- Pelvis Structure
- Partial Femur Bones
- Kidneys
- Spleen
- Pancreas
- Large and Small Intestines
- Bladder
- Prostate

Thoracic Organs:
- Trachea
- Heart with Four Chambers
- Lungs

Abdominal Organs:
- Diaphragm
- Liver
- Gallbladder
- Stomach

Pathologies:
- Cholecystitis
- Aortic Aneurysm
- Lesions in the Colon

Internal Hemorrhages:
- Perihepatic
- Perisplenic
- Pericardial
- Around the Bladder



SonoEZ Ultrasound Trainer

The new SonoEZ series consists of a lifelike, highly ultrasound-capable material that provides extremely realistic ultrasound images. The pad can be punctured, the puncture channels close almost completely due to the new material, so that nothing can be seen on the ultrasound image for a very long time.

SonoEZ Ultrasound Trainer “Vessel”

This trainer offers the possibility to scan and puncture two blood vessels with a diameter of 6mm in different depths.

Item No. SEZ-VE

SonoEZ Ultrasound Trainer “Deep vein thrombosis”

This trainer contains a healthy vessel with a diameter of 8 mm and a vessel with a thrombosis with a diameter of 8 mm.

Item No. SEZ-DVT

SonoEZ Ultrasound Trainer “Nerve”

This trainer offers the possibility of scanning two nerves with a diameter of 3mm and a depth range of 5mm to 30mm.

Item No. SEZ-NE

SonoEZ Ultrasound Trainer “Branched vessel”

This trainer offers the possibility of scanning and puncturing a blood vessel with a diameter of 6 mm which branches into two vessels with a diameter of 3 mm.

Item No. SEZ-BV

SonoEZ Ultrasound Trainer “Injection”

This trainer offers the possibility of scanning and puncturing a fluid-filled blood vessel with a diameter of 6 mm.

Item No. SEZ-IN

SonoEZ Ultrasound Trainer “Echo”

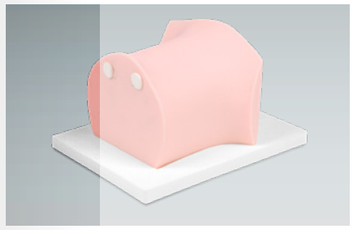
This trainer contains 4 different echogenic targets (isoechoic, hypoechoic, hyerechoic, anechoic).

Item No. SEZ-EC

SonoEZ Pediatric Ultrasound Trainer “CVC”

This model is for practising Cannulation. There are two vessel, Carotid Artery and IJ (Internal Jugular vein).

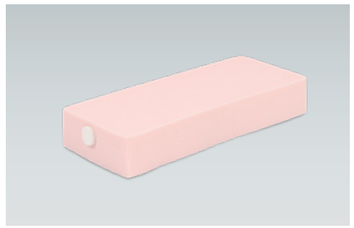
Item No. SEZ-PD-CVC



SonoEZ Pediatric Ultrasound Trainer “Femur”

This pediatric ultrasound trainer represents the femoral area. It contains the femoral artery and the femoral vein.

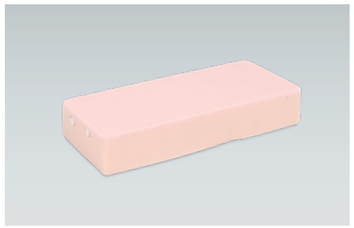
Item No. SEZ-PD-FE



SonoEZ Pediatric Ultrasound Trainer “Cannular”

This model has 2 small vessels at different depths, which are filled with liquid.

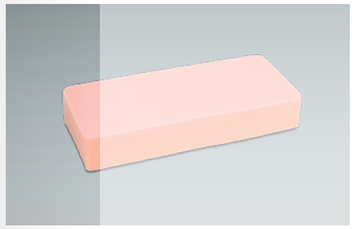
Item No. SEZ-PD-KA



SonoEZ Pediatric Ultrasound Trainer “Vessel”

This ultrasound trainer offers the possibility of puncturing 2 pediatric vessels.

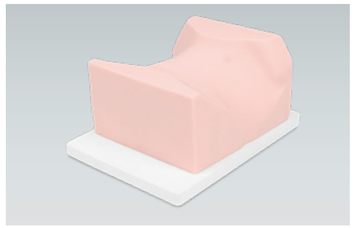
Item No. SEZ-PD-VE



SonoEZ Ultrasound Trainer “Thyroid”

This ultrasound trainer is for anatomical and needle training in the thyroid region, including biopsy simulation.

Item No. SEZ-TH



SonoEZ Ultrasound Trainer “Training Face”

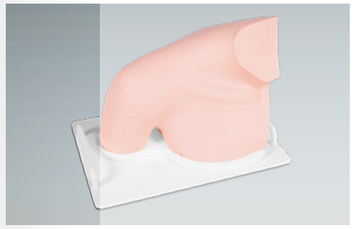
The facial sono-simulator covers the most important mimic and caudal facial muscles.

Item No. SEZ-FA

SonoEZ Ultrasound Trainer “Model Shoulder”

This shoulder model shows: Humerus, Scapula, Clavicle, cartilage, tendons, bursa, AC joint, and muscles.

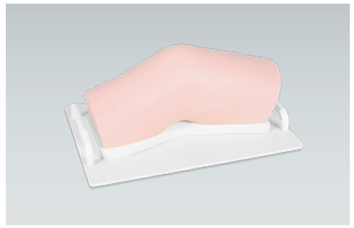
Item No. SEZ-SH



SonoEZ Ultrasound Trainer “Knee” (left)

This left knee model shows: Femur, Tibia, Patella, tendons, ligaments, fat pads, and bursae.

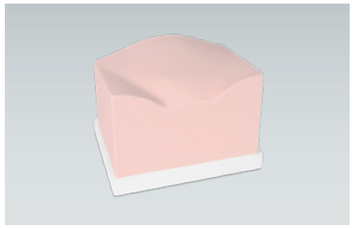
Item No. SEZ-KN



SonoEZ Ultrasound Trainer “Urinary bladder”

Ideal ultrasound trainer to reduce UTIs from unnecessary catheterization in hospitals and nursing homes.

Item No. SEZ-BL



Pediatric FAST/Acute Abdomen Phantom

The world's first pediatric ultrasound torso phantom. Pediatric FAST/Acute Abdomen Phantom provides opportunities of hands on training in ultrasound that is a crucial modality for radiosensitive children.

Item No. R16591

Features:

The phantom includes life-size 2-year-old thoraco-abdominal organs, a bone structure, free fluid to learn FAST procedures and pathologies that are commonly seen in pediatrics. With this phantom trainees can acquire skills in basics of pediatric abdominal ultrasound.

Pathologies:
Internal hemorrhage at perihepatic, perisplenic, pelvis, and pericardium area Bowel intussusception, appendicitis and biliary dilatation.

FAST Ultrasound training model

This phantom has been developed to provide simulated training in FAST (Focused Assessment with Sonography for Trauma); an ultrasound examination directed at identifying the presence of free intraperitoneal or pericardial fluid in the traumatic patients, which allows detecting the possible cause of shocks such as mass hemothorax, intraperitoneal hemorrhage or cardiac tamponade.

Item No. R16590

Features:

FAST Procedures:
Internat hemorrhage at perihepatic, perisplenic, pelvis and pericardium area.

Sonography for acute patients:
Internal hemorrhage at pericardial, bilateral chambers as well as intraabdominal hemorrhage around the liver, the spleen and the urinary bladder. Pathologies including cholecystitis, an aortic aneurysm, a lesion on the colon.

Ultrasound training model anatomy/pathology

This high-fidelity abdominal ultrasound training model is compatible with standard ultrasound machines, offering realistic full-angle scanning. It includes detailed anatomy such as the liver (with Couinaud's segments), biliary tract, pancreas, spleen, kidneys, and major vascular structures like the aorta, vena cava, portal vein, and mesenteric and renal vessels. Multiple cysts and tumors provide varied training scenarios for advanced pathology recognition.

Ultrasound model
Item No. R16560

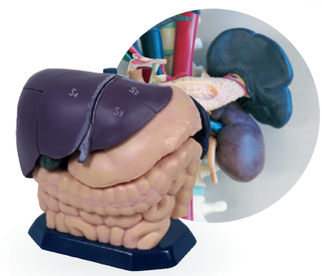
Set ultrasound model and anatomical model
Item No. R16560-1

Ultrasound training model anatomy

This model is perfect for the first education in ultrasound examination. It is a great tool for learning how to orientate in the upper abdomen and gives perfect images of all relevant organs and structures. In addition to liver, gallbladder, pancreas, spleen and vessels the lungs and ribs are represented in the model. The location of the organs and the thickness of the surrounding tissue are like in a real patient.

Ultrasound model
Item No. R16570

Set ultrasound model and anatomical model
Item No. R16570-1



Anatomical Model for Ultrasound education

This 20-part model of the upper abdominal organs precisely represents the anatomy found in training models R16560 and R16570. It allows you to view the organs and structures three-dimensionally while scanning them in the training model. Included are: liver (divisible into 8 segments), gall bladder, spleen, left kidney, vena cava, spine, large and small intestine, portal vein, bile duct and hepatic artery, pancreas, right kidney, abdominal aorta, hepatic vein, and stomach.

Anatomical model
Item No. R16580

Multipurpose Phantom

is applicable for both daily assessment and further research. It contains 10 line targets, four non-echogenic cylindrical targets and 7 kinds of gray scale targets.

Item No. R16543

Breast Phantom

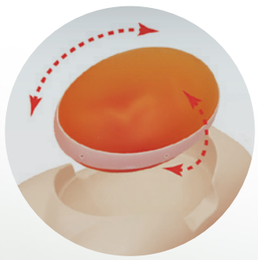
Specialized phantom for high frequency sonography – around 10 MHz required in breast examination. The phantom includes four kinds of targets, gray scale, cyst, dot and 45° line targets. The Phantom includes two training blocks.

Item No. R16546

Fetus Ultrasound Examination Phantom

The phantom provides high quality training for routine second trimester screening. This phantom contains a 23 week fetus with full anatomy placed in the uterus that can be scanned with 2D and 3D transducers. The oval shape phantom abdomen can be set in four different positions to enrich the training variation. Included life-size fetus model facilitates demonstration and three dimensional understanding.

Item No. R16595



Abdominal Intraoperative & Laparoscopic Ultrasound Phantom

Inanimate tool for training of a novice to demonstration by an expert. Includes the liver, biliary tract, pancreas, spleen, kidneys, and detailed vascular structures.

Item No. R16550

Features:

This phantom features detailed hepatobiliary and abdominal anatomy for training in laparoscopic ultrasound scanning. It includes soft materials, simulated lesions, detachable stomach and duodenum, a water-immersion container, near life-size organs, and fits into a laparoscopic trainer box. Durable and long-lasting construction.

Pathologies:
hepatic lesions, gallbladder and bile duct stones, pancreatic tumors, splenic lesions, both kidney lesions, and left adrenal tumor.

EXPERTS IN MEDICAL EDUCATION

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