

True Phantom Solutions Inc.

Product Catalog

Date: 25/06/19



TRUE PHANTOM
SOLUTIONS

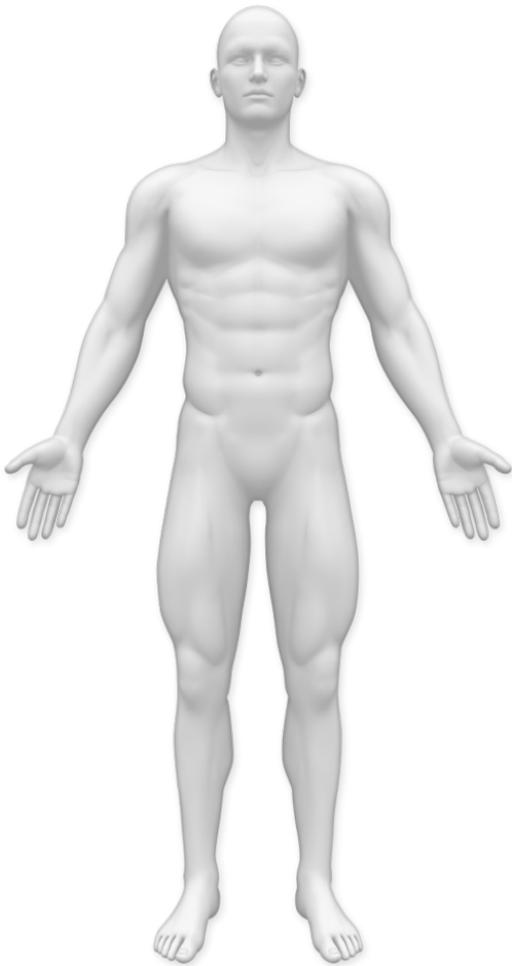
Training Simulators

True Phantom Solutions

Expertise in Ultrasound, MRI, X-Ray, CT & Sonography phantoms

A multinational biomedical company that manufactures anatomically correct human body parts that are also known as phantoms. These phantoms or medical simulators are highly realistic and lifelike models that can be used to carry out scientific research & development and medical training. Compatibility with Ultrasound, MRI, CT, and X-Ray makes our product unique and valuable.

Lowest prices guaranteed | 1-2 Year product warranty | Lifetime customer service



Who do we help?

TPS has developed the unique technology of synthetic materials used to create phantoms with realistic, life-like properties. These materials have highly realistic acoustical, physical, and mechanical properties which are identical to those of real human tissues.

Our phantoms are compatible with Ultrasound, MRI and CT medical diagnostic techniques and they may vary from simple cubic shapes to highly customized human-like copies. Through the use of 3D printing technology, exact patient models can be fabricated based on individual orders.

Our products are one-of-a-kind. We customize our phantoms to fit individual customer specifications for their unique biomedical needs.

Who do we help?

- Researchers/scientists who develop new medical devices;
- Medical and nursing students who require tools to practice their hands-on skills;
- Neurosurgeons who perform non-invasive neurosurgical HIFU procedures;

Table of Contents

Page

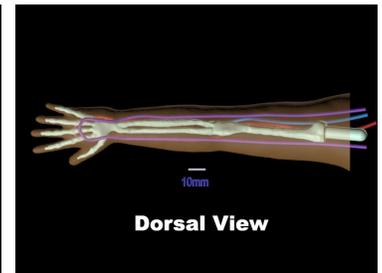
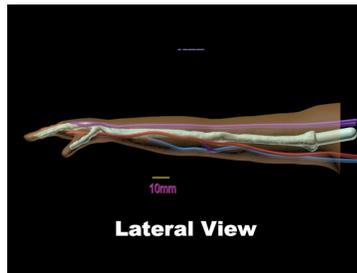
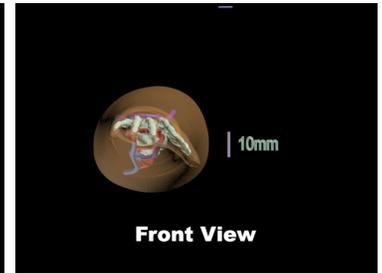
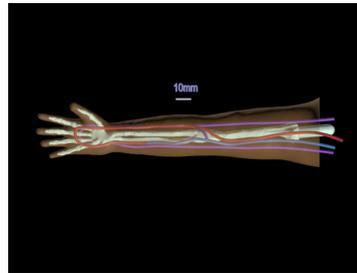
	Newborn Arm	AM-N01	\$2,900.00	5
	Adult Arm (X-Ray)	AR-A01	\$3,800.00	6
	Adult Brain (Standard)	BN-A01	\$3,090.00	7
	Adult Brain (Complex)	BN-A02	\$4,250.00	8
	Adult Human Torso – Skeletal Version	CT-A02	\$10,840.00	9
	Adult Human Torso – XRay Training	CT-A01	\$14,900.00	10
	Dog Phantom (Veterinary Ultrasound)	DG-A01	\$11,369.00	11
	Adult Pelvis Phantom	CT-A03	\$7,810.00	12

Table of Contents

Page

		Newborn Head (Complex)	HD-N01	\$3,500.00
				13
		Newborn Head (Simple)	HD-N02	\$2,600.00
				14
		Adult Heart (Red)	HT-A01	\$6,400.00
				15
		Adult Heart (Transparent)	HT-A02	\$6,800.00
				16
		Adult Human Torso – Sonography Training	US-A01	\$12,900.00
				17
		Adult Torso (Transparent) – Sonography Training	US-A02	\$12,900.00
				18
		Newborn Torso	US-NO1	\$4,400.00
				19
		Newborn Torso (Transparent)	US-NO2	\$4,400.00
				20

Newborn Arm



AM-N01

\$2,900.00

Baby Arm for Multipurpose is an anatomically correct, highly realistic arm phantom that can be used for ultrasound guided IV training for nurses and physicians.

The phantom is an ideal investment to learn the skills of giving an intravenous injection on a baby's arm under ultrasound guidance.

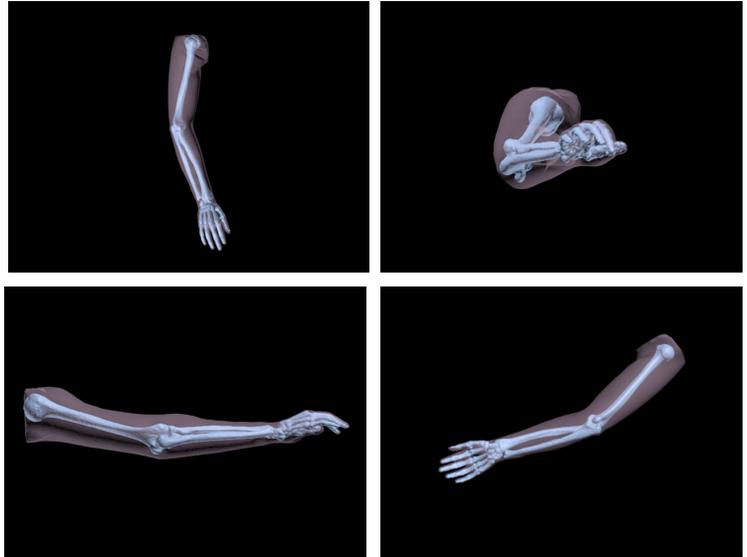
The phantom has the following features:

- Mimics like a baby arm
- Great skin quality
- Anatomically correct Blood vessels
- Compatible with Ultrasound imaging
- Tested for IV in our labs

[True Phantom Solutions Inc.](#) maintains a healthy collaboration with the group of physician experts from the **Sonographic Clinical Assessment of the Newborn (SCAN) Training Program** program at the **University of Calgary** (Department of Pediatrics) that helps us in developing these neonate phantoms and to hold strength in customizing them.



Adult Arm (X-Ray)



AR-A01

\$3,800.00

Adult Arm for X-Ray training is an anatomically correct, highly realistic arm phantom with complete bones that can be used for X-Ray imaging.

The X-Ray Arm Phantom Phantom can be used to take x-ray images of the full arm. The model includes artificial bones made out of realistic patented bone mimicking material. The X-Ray Arm Model is perfect for schools and education, but also for medical technicians since the same bones can be x-ray again and again in different settings without the danger of harming a patient.

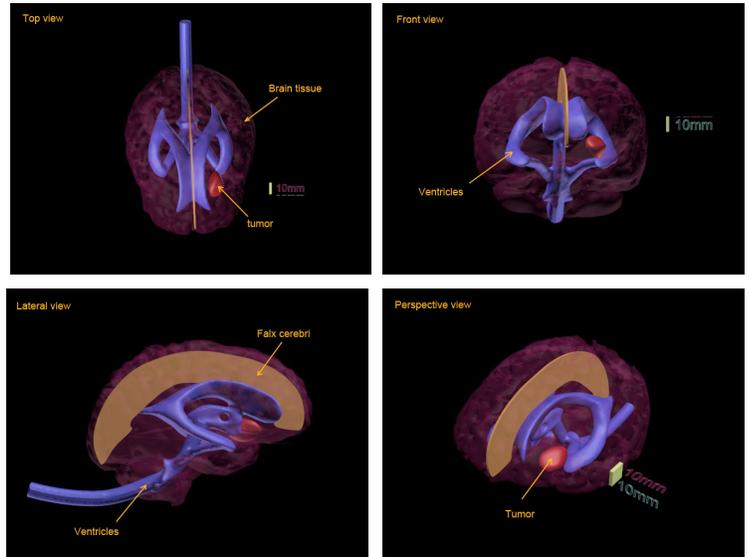
The bones are embedded in a realistic tissue mimicking material which can be either transparent or opaque. The X-Ray Models may differ in size and shape. Due to production technology there may be discoloring and cracks inside the phantom. This is related to production and is no lack of quality.

Adult Brain (Standard)



BN-A01

\$3,090.00



Standard Adult Brain for multipurpose

The phantom is designed based on an average brain and it is made out of realistic tissue mimicking materials suitable for Ultrasound, MRI and CT applications. The Phantom has the following features:

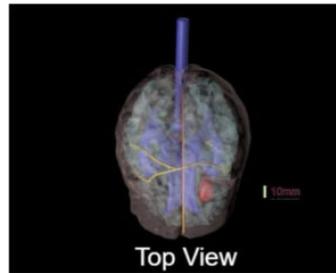
- Geometry & dimensions of an average human
- Realistic brain tissue
- Brain ventricles
- Brain tumor
- Falx cerebri

Adult Brain (Complex)

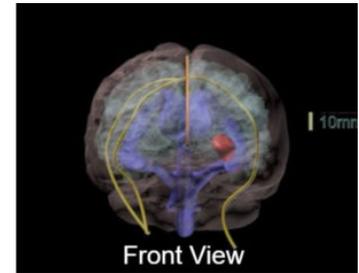


BN-A02

\$4,250.00



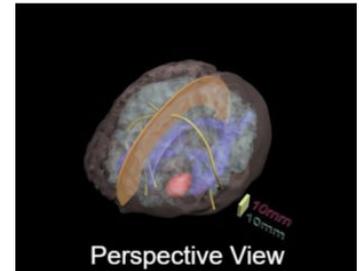
Top View



Front View



Lateral View



Perspective View

Anatomically Correct Complex Brain Phantom

The phantom is designed based on an average brain and it is made out of realistic tissue mimicking materials suitable for Ultrasound, MRI and CT applications. The Phantom has the following features:

- Geometry & dimensions of an average human brain
- White & Grey brain matter
- Brain ventricles
- Brain tumor
- Blood vessels with 2mm inner diameter and one bifurcation
- Falx cerebri

Upon special request, the phantom features and the properties of the tissue mimicking materials can be customized based on the requirements of any particular project.

Adult Human Torso – Skeletal Version



CT-A02

\$10,840.00

The Phantom is designed based on an average human anatomy and it is made out of realistic patented bone material that is suitable for CT applications. It can be used for medical imaging research, radiology training and testing and calibration of X-Ray machines.

The following anatomical structures are included:

- Spine
- Rib Cage
- Pelvis

The bones have a realistic three-layered structure with inner porosity which can be adjusted according to the requirement of the particular project.

The phantom can be customized in size and shape (i.e. based on the individual's CT scan).

Materials used:

Soft tissue and organs: Composition of urethane base soft resin

Synthetic bones: Patented ceramic-reinforced epoxy-based composite material

Dimensions and Weight:

Size: 85 x 32 x 32 cm (approx.) Weight: 40 kgs (approx.)

Your order will Include:

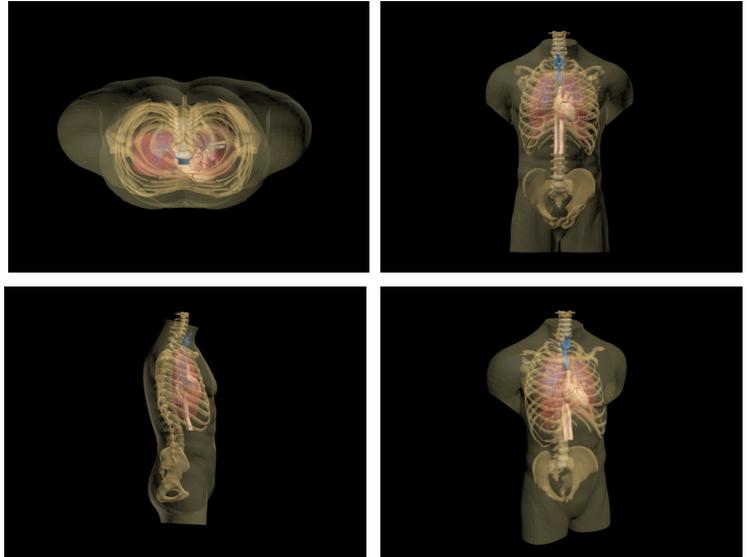
- Male Standard Torso
- Design video
- Manual
- Hard carry case (optional)

Adult Human Torso – XRay Training



CT-A01

\$14,900.00



The Phantom is designed based on an average human anatomy and it is made out of realistic patented bone material that is suitable for CT applications. It can be used for medical imaging research, radiology training and testing and calibration of X-Ray machines.

The following anatomical structures are included:

- Lungs
- Trachea
- Heart
- Spine
- Rib Cage
- Pelvis

The bones have a realistic three-layered structure with inner porosity which can be adjusted according to the requirement of the particular project.

The phantom can be customized in size and shape (i.e. based on the individual's CT scan).

Materials used:

- Soft tissue and organs: Composition of urethane base soft resin
- Synthetic bones: Patented ceramic-reinforced epoxy-based composite material

Dimensions and Weight:

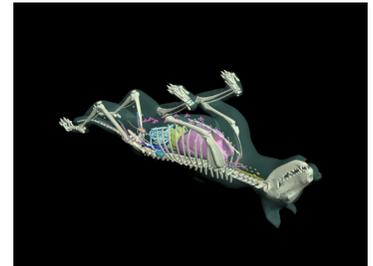
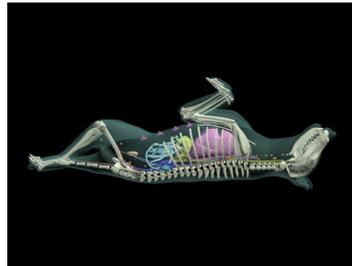
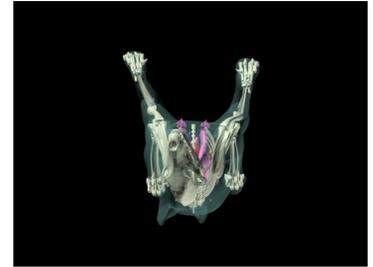
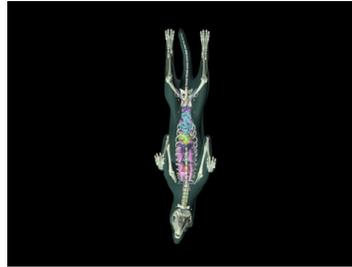
Size: 85 x 32 x 32 cm (approx.) Weight: 40 kgs (approx.)



DG-A01

\$11,369.00

Dog Phantom (Veterinary Ultrasound)



“**Adult Female Dog**”, also known as “Life size Canine Phantom” is a realistic and an anatomically correct phantom, with all the essential organs present inside. This phantom has been developed to provide ultrasound guided simulated training for veterinary courses and it can be used for variety of medical imaging applications. It can be customized with different pathologies for specific training applications.

It comes in 5 different versions depending on imaging modalities:

1. Ultrasound (Part number: DG-A01)
2. X-Ray CT (Part number: DG-A02)
3. MRI (Part number: DG-A03)
4. Ultrasound and X-Ray CT (Part number: DG-A04)
5. MRI and X-Ray CT (Part number: DG-A05)

The model has the following anatomical structures:

- Spleen (head, body, tail), stomach, liver
- kidneys
- adrenal gland
- aorta and sub-lumbar lymph nodes
- urinary bladder and prostate
- descending colon and small bowel
- duodenum, pancreas
- limbs, body and skeleton
- gall bladder
- portal vein, caudal vena cava and lymph nodes

Please note: This product is a replica of a normal adult human female dog and it is used for ultrasound training and other veterinary. It can be customized with different pathologies based on your needs.

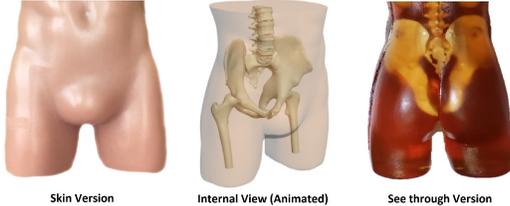
Materials used:

- Soft tissue and organs: Composition of urethane base soft resin
- Synthetic bones: Urethane base hard resin

Your order will Include:

- Dog Phantom
- Design video
- User Manual
- Hard carry case (optional)

Adult Pelvis Phantom



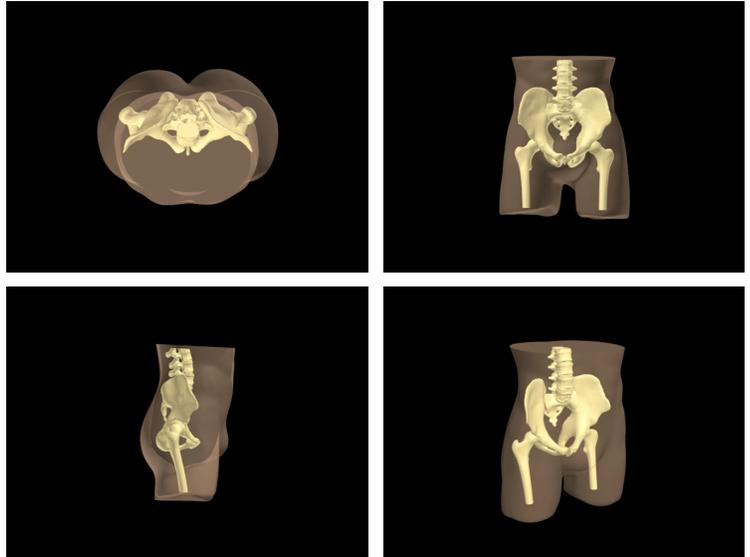
Skin Version

Internal View (Animated)

See through Version

CT-A03

\$7,810.00



The **Adult Pelvis Phantom** is designed based on an average human anatomy and it is made out of realistic patented bone material that is suitable for CT applications. It can be used for medical imaging research, radiology training and testing and calibration of X-Ray machines.

The following anatomical structures are included:

- Lumbar sacral spine
- Pelvis bone with anatomically correct structures and shape
- Partial femoral bones
- Realistic soft tissue surrounding the bone

The bones have a realistic three-layered structure with inner porosity which can be adjusted according to the requirement of the particular project.

The phantom can be customized in size and shape (i.e. based on the individual's CT scan).

Materials used:

- Soft tissue and organs: Composition of urethane base resin
- Synthetic bones: Patented ceramic-reinforced epoxy-based composite material

Dimensions and Weight:

Size: 85 x 32 x 32 cm (approx.) Weight: 40 kgs (approx.)

Your order will Include:

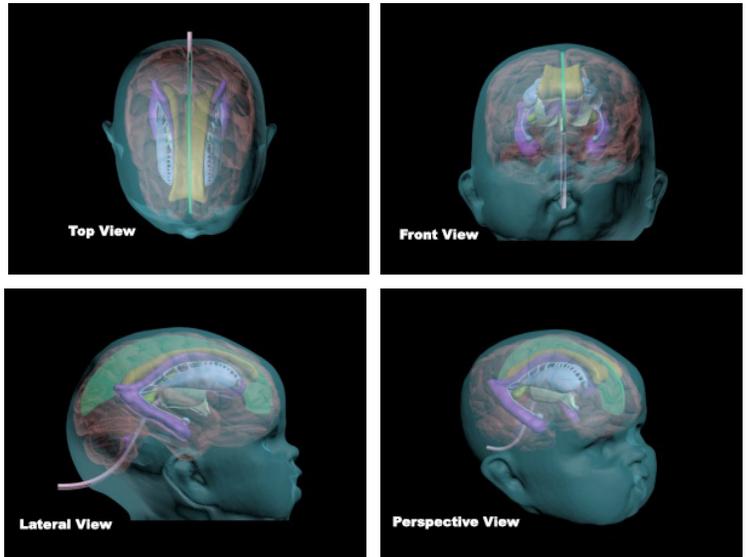
- Male Standard Pelvis
- Design video
- Manual
- Hard carry case (optional)

Newborn Head (Complex)



HD-N01

\$3,500.00



Complex Newborn Head for Ultrasound Training

Anatomically Correct New Born Head Phantom

The phantom is designed based on an average new born head and it is made out of realistic tissue mimicking materials suitable for Ultrasound imaging.

The phantom consists of following components:

- Realistic Brain
- Corpus Callosum
- Falx
- Brain Ventricles
- Septum pellucidum
- Caudate
- Putamen
- Thalamus
- Choroid Plexus
- Cerebellum & Pons

[True Phantom Solutions Inc.](#) maintains a healthy collaboration with the group of physician experts from the **Sonographic Clinical Assessment of the Newborn (SCAN) Training Program** program at the **University of Calgary** (Department of Pediatrics) that helps us in developing these neonate phantoms and to hold strength in customizing them.

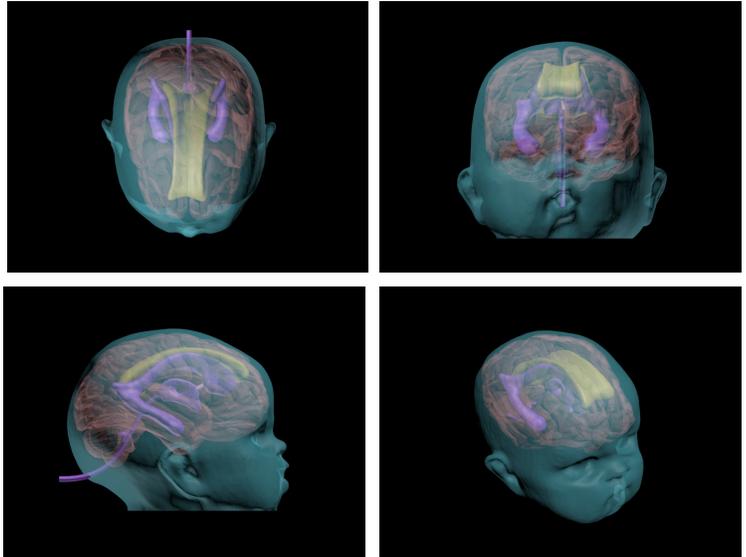




HD-N02

\$2,600.00

Newborn Head (Simple)



Simple Newborn Head for Ultrasound Training

Anatomically Correct New Born Head Phantom

The phantom is designed based on an average new born head and it is made out of realistic tissue mimicking materials suitable for Ultrasound imaging.

The phantom consists of following components:

- Realistic Brain
- Corpus Callosum
- Brain Ventricles

[True Phantom Solutions Inc.](http://www.truephantomsolutions.com) maintains a healthy collaboration with the group of physician experts from the **Sonographic Clinical Assessment of the Newborn (SCAN) Training Program** program at the **University of Calgary** (Department of Pediatrics) that helps us in developing these neonate phantoms and to hold strength in customizing them.

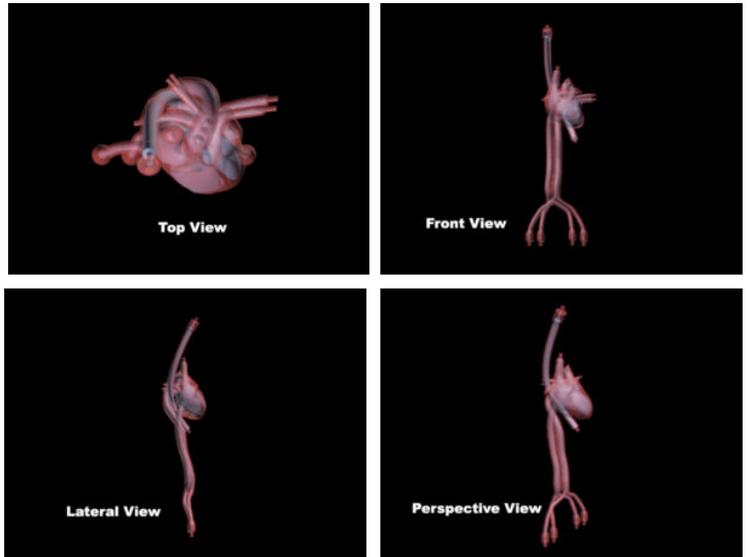


Adult Heart (Red)



HT-A01

\$6,400.00



Adult heart for multipurpose is a realistic artificial human heart that is majorly used by hospitals, researchers and medical schools for research & development as well as to train medical students and residents with various medical practices. Our heart model is compatible with endoscopic, ultrasound, MRI, CT and various medical imaging technologies.

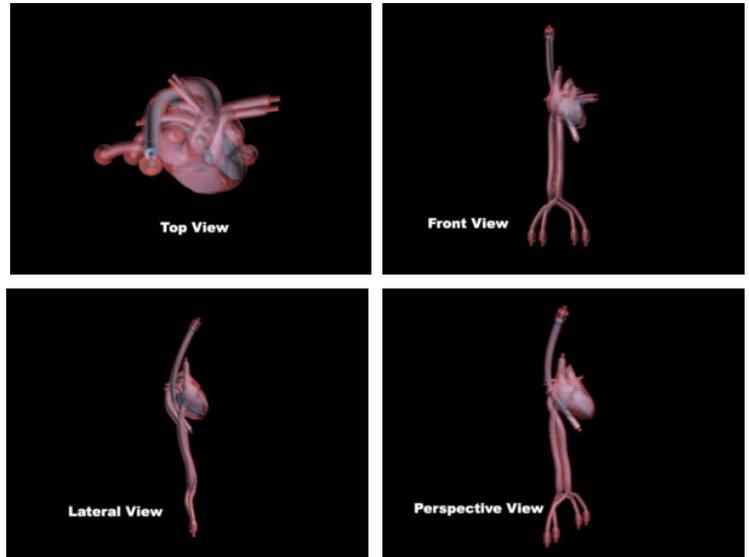
The picture represents the phantom/model without water tank. An optional water tank helps researchers in obtaining an enhanced view of the internal structure of the heart. The chambers and vessels are anatomically correct.

Adult Heart (Transparent)



HT-A02

\$6,800.00



Adult heart for multipurpose is a realistic artificial human heart that is majorly used by hospitals, researchers and medical schools for research & development as well as to train medical students and residents with various medical practices. Our transparent heart model is compatible with endoscopic equipment and it is used whenever the optical transparency is crucial for research and training purposes.

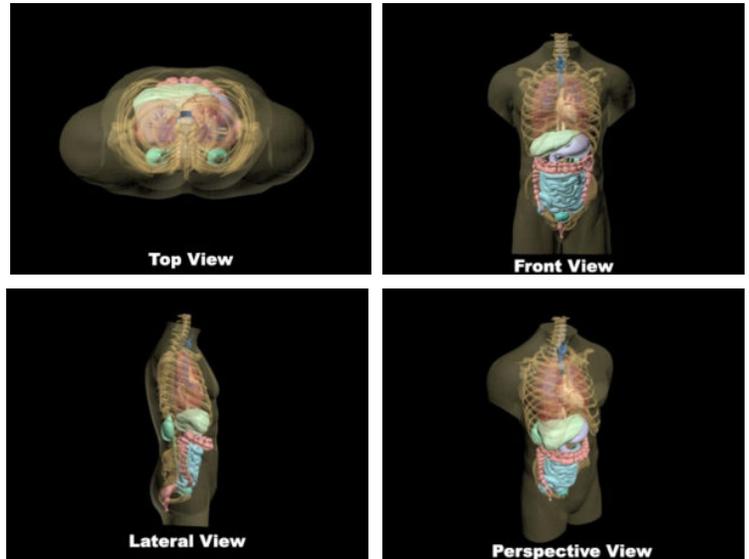
The picture represents the phantom/model without water tank. An optional water tank helps researchers in obtaining an enhanced view of the internal structure of the heart. The chambers and vessels are anatomically correct.

Adult Human Torso – Sonography Training



US-A01

\$12,900.00



Adult Human Torso is a lifelike phantom, anatomically correct, from neck to pelvic area with all the organs present inside. This phantom has been developed to provide simulated training for sonography courses and it can be used for variety of medical imaging applications. It can be customized with different pathologies for specific training applications.

The model has the following anatomical structures:

- Heart
- Lungs
- Liver
- Stomach
- Diaphragm
- Spleen
- Pancreas
- Kidneys
- Vena cava
- Esophagus tube
- Aorta
- Colon
- Bladder
- Large intestine
- Small intestine
- Pelvic
- Ribcage
- Spine

Please note: This product is a replica of a normal adult human being and it is used for ultrasound training. It can be

customized with different pathologies based on your needs.

Materials used:

Soft tissue and organs: Composition of urethane base soft resin

Synthetic bones: Urethane base hard resin

Dimensions and Weight:

Size: 85 x 32 x 32 cm (approx.) Weight: 40 kgs (approx.)

Your order will include:

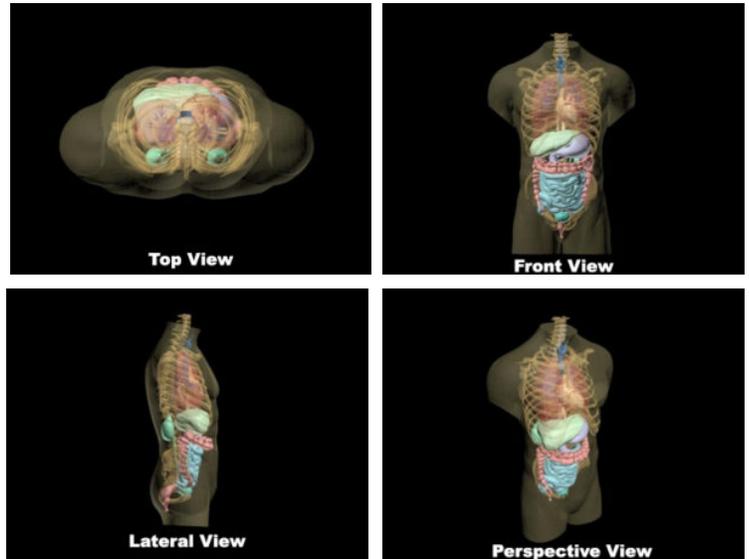
- Male Standard Torso
- Design video
- Manual
- Hard carry case (optional)

Adult Torso (Transparent) – Sonography Training



US-A02

\$12,900.00



Adult Human Torso is a lifelike phantom, anatomically correct, from neck to pelvic area with all the organs present inside. This phantom has been developed to provide simulated training for sonography courses and it can be used for variety of medical imaging applications. It can be customized with different pathologies for specific training applications.

The model has the following anatomical structures:

- Heart
- Lungs
- Liver
- Stomach
- Diaphragm
- Spleen
- Pancreas
- Kidneys
- Vena cava
- Esophagus tube
- Aorta
- Colon
- Bladder
- Large intestine
- Small intestine
- Pelvic
- Ribcage
- Spine

Please note: This product is a replica of a normal adult human being and it is used for ultrasound training. It can be

customized with different pathologies based on your needs.

Materials used:

Soft tissue and organs: Composition of urethane base soft resin

Synthetic bones: Urethane base hard resin

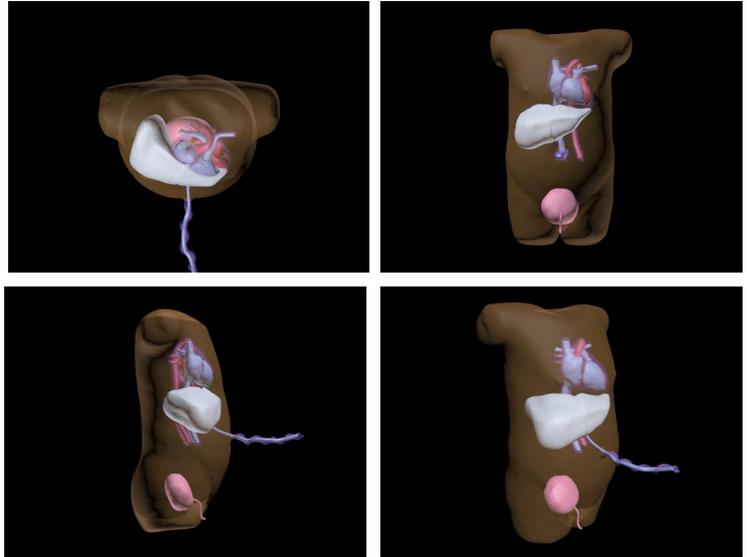
Dimensions and Weight:

Size: 85 x 32 x 32 cm (approx.) Weight: 40 kgs (approx.)

Your order will include:

- Male Standard Torso
- Design video
- Manual
- Hard carry case (optional)

Newborn Torso



US-NO1

\$4,400.00

An anatomically correct Newborn Torso for Ultrasound training is designed based on an average new born anatomy of 40 weeks old baby and it is made out of realistic tissue mimicking materials suitable for Ultrasound imaging. It can be used for Medical Imaging and Training Purposes. The phantom consists of the following features:

- Heart
- IVC
- Umbilical cord
- Liver
- Water Fillable Bladder
- Realistic Body Tissue

It is a tool to train the following:

- Skills required to insert the catheter through the umbilical cord to the right atrium under ultrasound guidance
- Skills required to identify and catheter a full and empty bladder under ultrasound guidance

[True Phantom Solutions Inc.](#) maintains a healthy collaboration with the group of physician experts from the **Sonographic Clinical Assessment of the Newborn (SCAN) Training Program** program at the **University of Calgary** (Department of Pediatrics) that helps us in developing these neonate phantoms and to hold strength in customizing them.

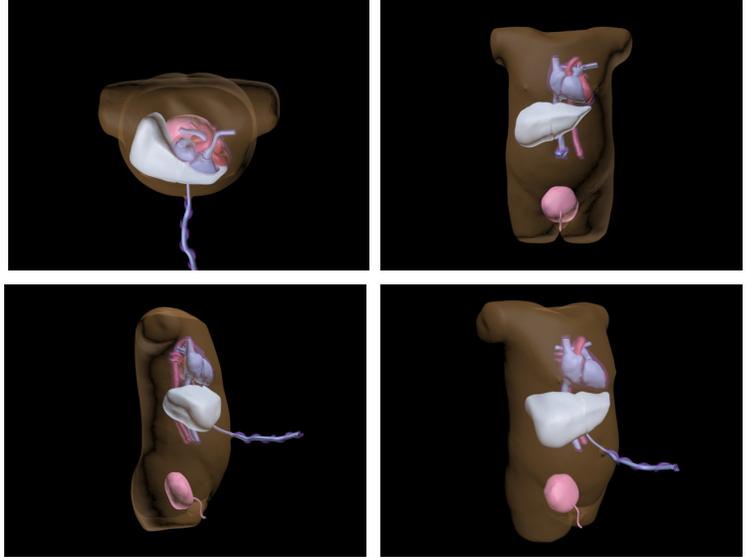


Newborn Torso (Transparent)



US-NO2

\$4,400.00



An anatomically correct Newborn Torso for Ultrasound training is designed based on an average new born anatomy of 40 weeks old baby and it is made out of realistic tissue mimicking materials suitable for Ultrasound imaging. It can be used for Medical Imaging and Training Purposes. The phantom consists of the following features:

- Heart
- IVC
- Umbilical cord
- Liver
- Water Fillable Bladder
- Realistic Body Tissue

It is a tool to train the following:

- Skills required to insert the catheter through the umbilical cord to the right atrium under ultrasound guidance
- Skills required to identify and catheter a full and empty bladder under ultrasound guidance

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