

 **KYOTO KAGAKU**

**SINCE
1891**

KYOTO AND TOKYO, JAPAN
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Vol. UP-3

ULTRASOUND PHANTOMS

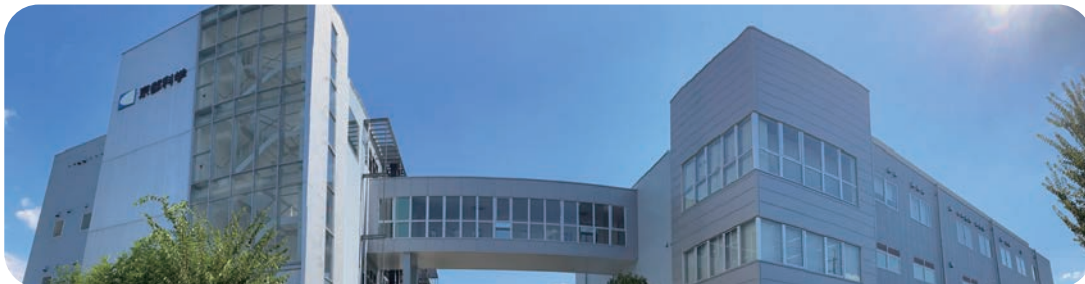
GLOBAL PRODUCT CATALOG **MODEL-40**

English



Aiming to be a leader in global healthcare education

We would like to introduce our new factory building (inaugurated April 2023), which is dedicated entirely to diagnostic imaging phantoms. This state-of-the-art facility not only enhances our manufacturing capacity but also serves to demonstrate the use of Kyoto Kagaku phantoms worldwide. The second floor houses our ultrasound phantom team and a number of 3D printers used for research and manufacturing. The third floor features the "Working Commons," which serves as a broadcasting studio for online training. Additionally, visitors can explore exhibition areas and simulated hospital wards for interactive learning experiences. Our lounge area is open to guests from all over the world, creating a warm environment for communication and the exchange of ideas. We invite you to visit Kyoto and join us for tea in our new building, where conversations may inspire the next generation of phantoms.



Kyoto Kagaku Co., Ltd

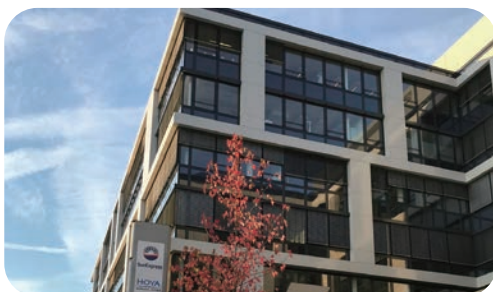
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Japan



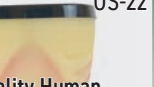
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Symbols and icons



TONE

Available in multiple skin tones



CE marked



Includes a storage case



Consumables and replacement parts available



An training video is available on Kyoto Kagaku Manuals and User's Guides
<https://www.kyotokagaku.com/en/manual/index.html>

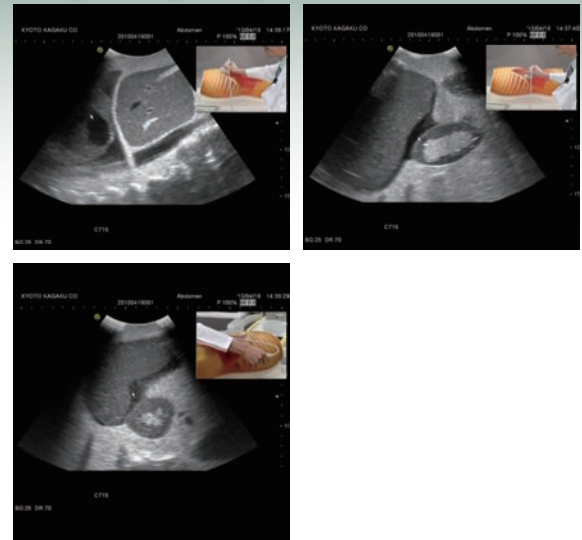
FAST/Acute Abdomen Phantom FAST/ER FAN

For training in Focused Assessment with Sonography in Trauma (FAST), FAST Exam can be performed per ATLS protocol especially for patients who need an emergent bedside procedure



Video Available

Item No. US-5
Code 41903-000



FEATURES

- | 01 Allows repeated practice of thoracoabdominal assessment in ATLS primary survey
- | 02 Facilitates ultrasound image acquisition for FAST and acute abdominal conditions, including acute cholecystitis and cholangitis
- | 03 Features tissue-mimicking material anatomically correct organs and observable vascular structures

SKILLS

Ultrasound image assessment in abdominal trauma

- Assessment for cardiac tamponade
- Assessment for hemothorax
- Detection of bleeding around Morrison's pouch and the liver
- Detection of bleeding below the spleen
- Detection of bleeding in the pelvic cavity

Ultrasound image assessment of acute abdominal conditions:

Recommended devices:

- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Anatomy:

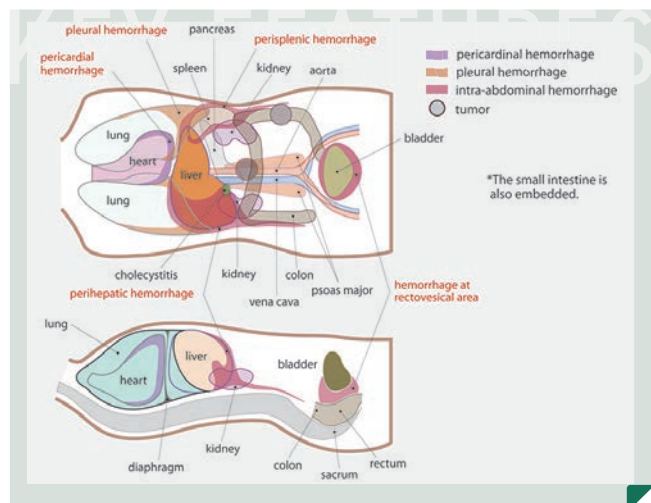
Lung / Diaphragm / Heart / Kidneys (left and right) / Gallbladder / Abdominal aorta / Inferior vena cava / Gluteus maximus / Large intestine / Liver (portal vein, bile duct, hepatic artery, hepatic vein) / Spleen / Pancreas (pancreatic duct) / Bladder / Spine / Ribs / Sacrum

Bleeding sites:

Pericardial region / Peripulmonary region / Below the spleen / Perihepatic region / Pelvic region

Emergency cases:

Cholecystitis / Cholangitis / Appendicitis / Diverticulitis / Aortic aneurysm



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult thoracoabdominal model
Size: approx. W62 x D30 x H24 cm (W24.4 x D11.8 x H9.4 in)

Weight: approx. 30 kg (66.1 lb)
Material: Polyurethane elastomer
Latex free

SET INCLUDES

- 1 Ultrasound phantom
- 1 Talcum powder

Product Supervision:

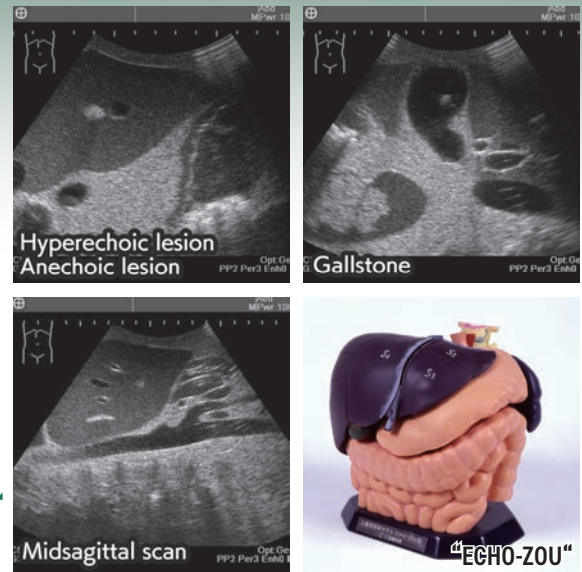
Junji Machi, MD, PhD
University of Hawaii at Manoa and Kuakini Medical Center

RELATED PRODUCTS

US-1 Ultrasound Examination Training Phantom ECHOZY
US-1B Ultrasound Examination Training Phantom ABDFAN
US-8 Pediatric FAST/Acute Abdomen Phantom

Ultrasound Examination Training Phantom ABDFAN

Practice localization and assessment of focal lesions in the upper abdomen



Item No.	Code	
US-1B	41900-100	ABDFAN full set*
	41900-030	ABDFAN
* Includes anatomical organ model "ECHO-ZOU"		

FEATURES

- | 01 Represents lesions in different organs with varying echogenic properties, including cysts, stones and tumors
- | 02 Features material with acoustic properties comparable to human soft tissue to accurately reproduce upper abdominal organs and major gastrointestinal structures
- | 03 Allows repeatable abdominal ultrasound practice with any ultrasound device

SKILLS

Ultrasound screening of upper abdominal organs and intra-organ lesions

Recommended devices:

- Convex transducer

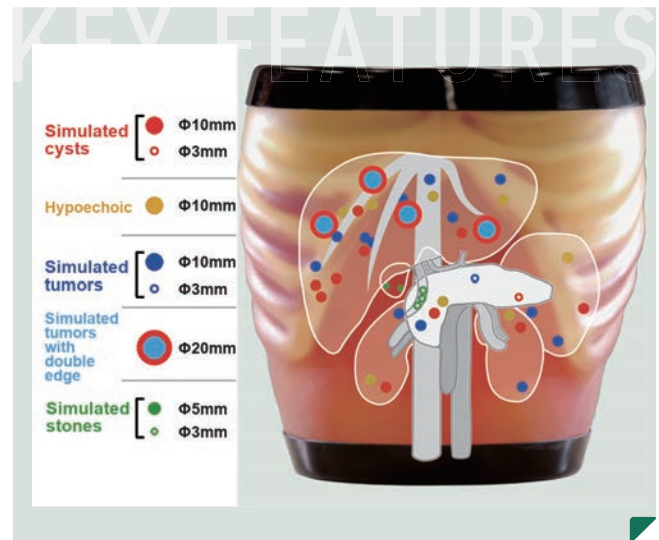
ANATOMY / CASES / PATHOLOGIES

Anatomy:

Lung / Kidneys (left and right) / Gallbladder / Aorta / Liver (portal vein, bile duct, hepatic artery, hepatic vein) / Spleen / Pancreas (pancreatic duct) / Inferior vena cava / Spine / Ribs

Lesions:

Liver lesions (cystic and solid) / Gallbladder and bile duct stones / Pancreatic tumors (one lesion invades the portal vein) / Splenic lesions / Lesions in both kidneys



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult upper abdominal model	Weight: approx. 12 kg (26.5 lb)
Size: W25 x D18 x H28 cm (W9.8 x D7.1 x H11 in)	Material: Polyurethane elastomer / Latex free

Product Supervision:

Junji Machi, MD, PhD
University of Hawaii at Manoa and Kuakini Medical Center

SET INCLUDES

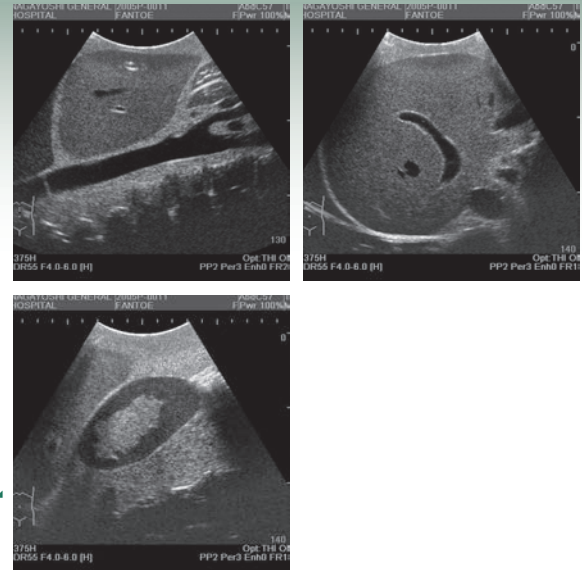
1 Ultrasound phantom	1 Talcum powder
1 Upper abdominal anatomy model ECHO-ZOU*	1 Storage case (2 pieces*)
Note: *Included with 41900-100 only.	

RELATED PRODUCTS

US-1 Ultrasound Examination Training Phantom ECHOZY
US-22 Dual Modality Human Abdomen Phantom (CT, Ultrasound)

Ultrasound Examination Training Phantom ECHOZY

Designed for fundamental abdominal ultrasound training



Item No.	Code	
US-1	41900-000	ECHOZY full set*
	41900-010	ECHOZY

* Includes anatomical organ model "ECHO-ZOU"

FEATURES

- | 01 Represents the liver, gallbladder, pancreas, spleen, kidneys, and major upper gastrointestinal structures
- | 02 Facilitates understanding of the Couinaud classification
- | 03 Allows repeatable abdominal ultrasound practice with any ultrasound device

SKILLS

Ultrasound screening of abdominal organs

Recommended devices:

- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Lung / Kidneys (left and right) / Gallbladder / Aorta / Liver (portal vein, bile duct, hepatic artery, hepatic vein) / Spleen / Pancreas (pancreatic duct) / Inferior vena cava / Spine / Ribs

Accessories to support learning

- 1) ECHO-ZOU model: an anatomical model for understanding upper abdominal anatomy
- 2) Training video*: ABDFAN-based abdominal ultrasound screening for self-study



*An training video is available on Kyoto Kagaku Manuals and User's Guides
<https://www.kyotokagaku.com/en/manual/index.html>

DESCRIPTIONS

SPECIFICATIONS

Main unit: adult upper abdominal model	Weight: approx. 12 kg (26.5 lb)
Size: W29 x D19 x H31 cm (W11.4 x D7.5 x H12.2 in)	Material: Polyurethane elastomer/ Latex free

Product Supervision:

Dr. Hitoshi Asai, Director
Osaka Kyoiku University, Health Administration Center
Dr. Shigeru Nakamura
Nagayoshi General Hospital, Clinical Examination Department

SET INCLUDES

1 Ultrasound phantom	1 Talcum powder
1 Upper abdominal anatomy model ECHO-ZOU*	1 Storage case (2 pieces*)

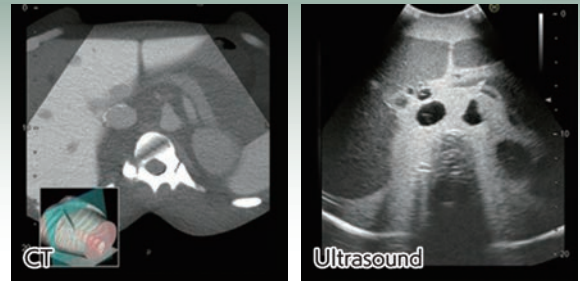
Note: *Included with 41900-100 only.

RELATED PRODUCTS

US-1B Ultrasound Examination Training Phantom ABDFAN
US-22 Dual Modality Human Abdomen Phantom (CT, Ultrasound)

Dual Modality Human Abdomen Phantom (CT, Ultrasound)

Upper abdominal phantom compatible with fusion imaging of ultrasound and CT



Item No.	Code
US-22	41952-000

FEATURES

- | 01 Special material allows for both CT and ultrasound examination
- | 02 Each organ and major gastrointestinal structure is accurately represented
- | 03 Simulated lesions, such as tumors, are detectable in the organs

SKILLS

CT and ultrasound screening of upper abdominal organs and intra-organ lesions

Recommended devices:
- Convex transducer

ANATOMY / CASES / PATHOLOGIES

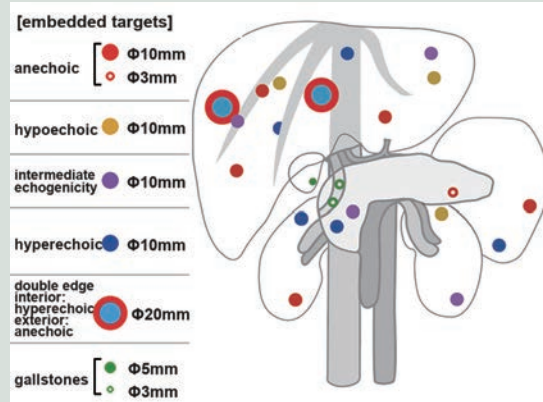
Organs:

Lung / Kidneys (left and right) / Gallbladder / Aorta / Liver (portal vein, bile duct, hepatic artery, hepatic vein) / Spleen / Pancreas (pancreatic duct) / Inferior vena cava / Spine / Ribs

Lesions:

Liver lesions (cystic and solid) / Gallbladder and bile duct stones / Pancreatic tumor / Splenic lesion / Left and right kidney lesions

Facilitates confirmation of CT-identified lesion locations using fusion imaging



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult upper abdominal model with lesions Weight: approx. 12 kg (26.5 lb)
Size: W29 x D19 x H31 cm (W11.4 x D7.5 x H12.2 in) Material: Soft resin

Note: Not intended for puncture practice

SET INCLUDES

- 1 Dual modality abdominal phantom
- 1 Talcum powder
- 1 Storage case

RELATED PRODUCTS

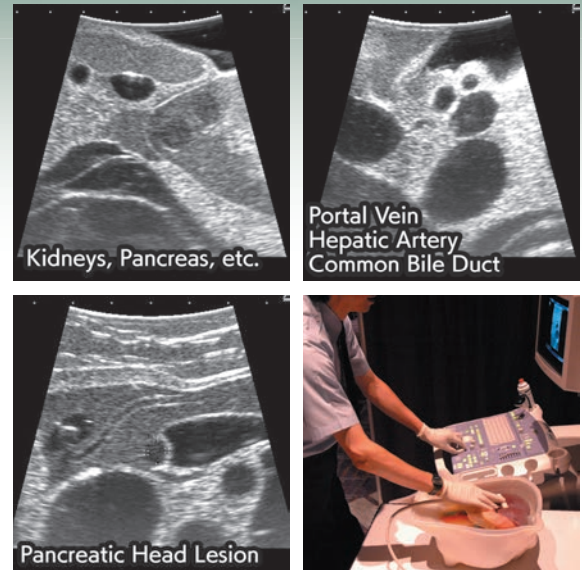
US-1 Ultrasound Examination Training Phantom ECHOZY
US-1B Ultrasound Examination Training Phantom ABDFAN

Abdominal Intraoperative & Laparoscopic Ultrasound Phantom IOUSFAN

Designed for intraoperative ultrasound training in open and laparoscopic upper abdominal procedures



Item No. US-3
Code 41901-000



FEATURES

- | 01 Upper abdominal organs containing lesions of varying echogenicity
- | 02 Realistic transducer manipulation with sonographic images closely resembling those of actual humans
- | 03 Stomach and duodenum can be removed for scanning practice in the biliary and pancreatic regions

SKILLS

Intraoperative ultrasound during open surgery
Laparoscopic ultrasound examination

Recommended devices:
- Laparoscopic transducer

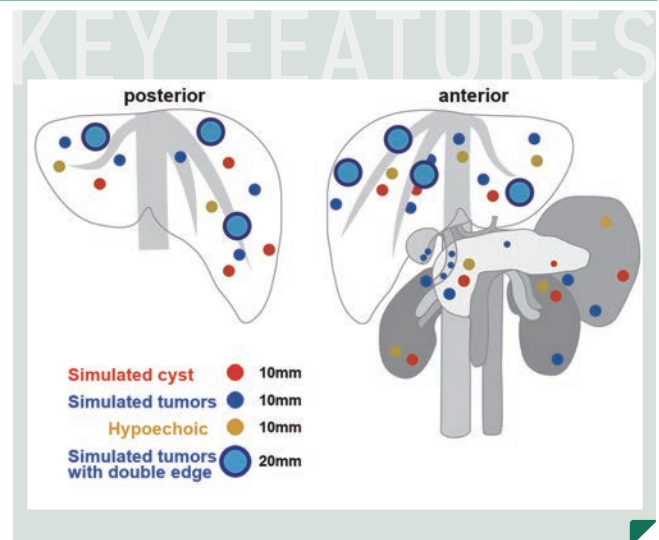
ANATOMY / CASES / PATHOLOGIES

Anatomy:

Liver (including liver segment representation, portal and hepatic veins, round ligament of the liver, and ligamentum venosum) / Biliary tract (including gallbladder, cystic duct, and intrahepatic/extrahepatic bile ducts) / Pancreas and pancreatic duct / Spleen / Kidneys / Vascular structures (arteries, inferior vena cava, celiac artery and branches, portal vein and branches, superior mesenteric vessels, renal vessels, and others)

Lesions:

Liver lesions (cystic and solid) / Gallbladder and bile duct stones / Pancreatic tumors (one lesion invades the portal vein) / Splenic lesions / Lesions in both kidneys



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult upper abdominal organ holder
Size: approx. W30 x D38 x H17.5 cm (W11.8 x D15 x H6.9 in)
Weight: approx. 5.8 kg (12.8 lb)
Material: Polyurethane elastomer/
Latex free

Product Supervision:

Junji Machi, MD, PhD
University of Hawaii at Manoa and Kuakini Medical Center

SET INCLUDES

1 upper abdomen ultrasound phantom	1 phantom container
1 stomach-duodenum phantom	1 storage case

RELATED PRODUCTS

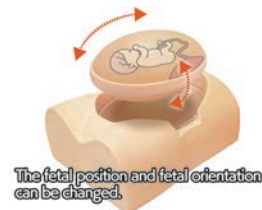
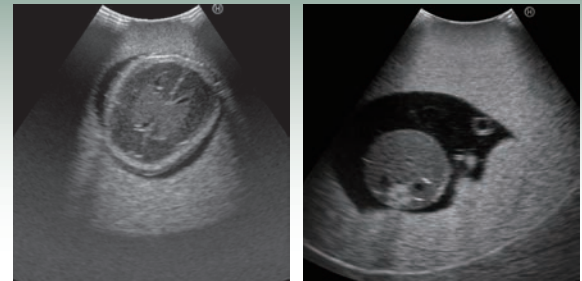
US-1B Ultrasound Examination Training Phantom ABDFAN

NEW



Fetus Ultrasound Examination Phantom SPACE FAN-ST Heart

Facilitates observation of a 23-week-old fetus included fetal cardiac anatomy



Item No. **US-7B**
Code **41905-100**

FEATURES

- | **01 Fetal skeletal and organ structures required for morphological evaluation and biometric measurements**
- | **02 Allows BPD, AC, FL, and amniotic fluid measurements, as well as fetal cardiac observation and assessment**
- | **03 Set includes a life-size fetal model and anatomical heart model**

SKILLS

Fetal measurement: BPD, AC, FL
Screening for abnormalities
Assessment of placental position, fetal presentation, orientation and sex
Cardiac observation
Confirmation of related structures, including amniotic fluid volume, placenta, and umbilical cord

Recommended devices:
- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Uterus:
Amniotic fluid / Placenta / Umbilical cord

Fetus:
Skeleton / Brain / Septum pellucidum / Lateral ventricles / Cerebellum Trachea / Pulmonary artery / Aortic arch / Ascending aorta / Descending aorta / Superior vena cava / Inferior vena cava / Lung / Liver / Spleen / Kidneys / Stomach / Bladder / Abdominal aorta connected to the heart / Umbilical vein / Umbilical artery / External genitalia (male) / Limbs (right hand open left hand lightly clenched)
Heart : aortic arch, trachea, ascending artery, superior vena cava, descending artery, atrial septum, ventricular septum, foramen ovale

RELATED PRODUCTS
MW48 Full Perinatal Patient Care Simulator Hana
MW34 Obstetric Examination Simulator

KEY FEATURES

US-7 α has evolved into US-7B Heart with the addition of advanced features

Added Features

- | Detailed heart anatomy for fetal echocardiography
- | Three times enlarged fetal heart model that demonstrates three key planes, 3VV, 3VTV and 4CV

Added Skills

- | Assessment of fetal heart size and cardiac axis
- | Assessment of fetal heart vessels.
- | Measurement and calculation of TCD and CTAR

DESCRIPTIONS

SPECIFICATIONS

Main unit: maternal abdomen torso
Size: approx. W40 x D31 x H22 cm (W15.7 x D12.2 x H8.7 in)
(maternal abdominal body)
W30 x D21 x H15 cm (W11.8 x D8.3 x H5.9 in) (phantom)

Weight: approx. 7.3 kg (16.1 lb)
Material: Soft resin/Polyurethane elastomer/Latex free

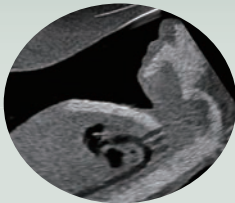
SET INCLUDES

1 Maternal abdominal body
1 Ultrasound pregnant uterus phantom
1 fetus demonstration model (with uterus, placenta, and umbilical cord)

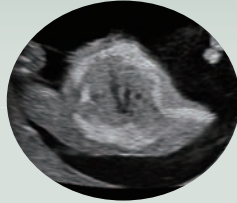
1 Heart model (separable at 4CV, 3VV, and 3VTV planes)
1 Talcum powder
1 Storage case

Fetus Ultrasound Examination Phantom SPACE FAN-ST Heart

US-7B SPACE FAN-ST Heart features detailed cardiac anatomy, ideal for fetal echocardiography training



aortic arch



three-vessel trachea view
(3VTV)



three-vessel view
(3VV)



four chamber view
(4CV)



FL



UV, Placenta



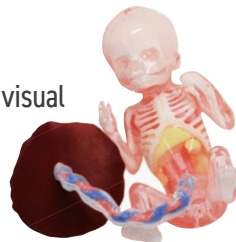
BPD



AC/AD

Fetus Demonstration Model -life-sized

A fetus model
for demonstration and visual
understanding



Fetus Heart Model -three times enlarged

Comes apart into 5 pieces
according to the basic planes in
fetal echocardiography



NEW

Product Supervision:

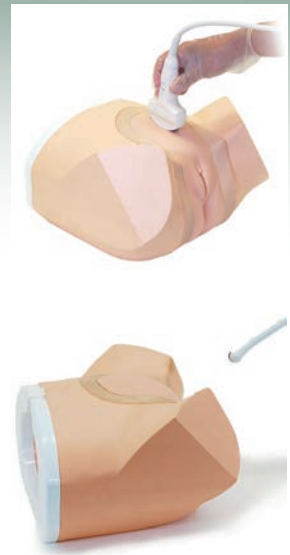
Kiyoko Kabeyama RN, RM, PhD. Kiyoko Kabeyama, Professor, Graduate School of Medicine, Kyoto University
Haruto Egawa, PhD. National Hospital Organization Kyoto Medical Center

Supervision and Guidance for Fetal Echocardiography:

Yukiko Kawazu, M.D., Department of Pediatrics, Fukuyama City Hospital
Nobuhiko Kan, M.D., Department of Fetal Cardiology, Fukuoka Children's Hospital
Akiko Ohira, M.D., Department of Perinatal Medicine, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University

Female Pelvic Ultrasound Phantom

Designed for ultrasound training with typical obstetric and gynecological cases



Item No.	Code	
US-10A	41909-100	Female Pelvic Ultrasound phantom (3 units/7 weeks)
US-10	41909-000	Female Pelvic Ultrasound phantom (2 units)
	41909-300	lower torso

FEATURES

- | **01** Six interchangeable examination units representing common cases
- | **02** Compatible with both transvaginal and transabdominal ultrasound examination
- | **03** Facilitates purpose-specific practice by choosing units individually

SKILLS

Handling and manipulation of transvaginal and transabdominal transducers
 Interpretation of sonogram
 Visualization and localization of anatomies and pathologies

Recommended devices:

- Convex transducer
- Transvaginal transducer

ANATOMY / CASES / PATHOLOGIES

Common for all units	Pregnancy units
uterus	gestation sac
urinary bladder	yolk sac
pelvic bone	embryo
ovaries	placenta
follicles	follicles
vagina	umbilical cord (10-week)
rectum	

DESCRIPTIONS

SPECIFICATIONS

Main unit: adult female abdominal model	Weight: [body] approx. 3.1 kg (6.8 lb)
Size: W34 x D33 x H24 cm (W13.4 x D13 x H9.4 in) (main unit)	[unit] approx. 3.8 kg (8.4 lb)
	Material: Soft resin/Polyurethane elastomer/Latex free

Product Supervision:

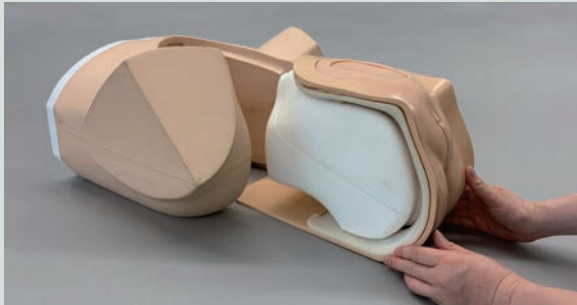
Charlotte Henningsen, MS, RT(R), RDMS, RVT, FSDMS, FAIUM
 Chairperson & Professor - Sonography Department
 Adventist University of Health Sciences

MODULAR OPTION

Build your own configuration

Lower torso with accessories (41909-300)

Add one or more units from to match your curriculum.



*Torso set does not include a training unit.

SET INCLUDES

	41909-100	41909-000	41909-300
Lower torso manikin	✓	✓	✓
Ultrasound 7-week pregnancy unit	✓		
Ultrasound ectopic pregnancy unit	✓	✓	
Ultrasound pathology unit	✓	✓	
Talcum powder	✓	✓	✓
Syringe	✓	✓	✓
Storage case	2	1	1

RELATED PRODUCTS

US-7B Fetus Ultrasound Examination Phantom SPACE FAN-ST Heart

Female Pelvic Ultrasound Phantom

TWO WAYS TO CHOOSE Select the option that best matches your training needs

1 READY-TO-USE SETS

2 CUSTOM-BUILD

READY-TO-USE SETS Choose a Complete Set

Select by pregnancy week and included units

US-10A Female Pelvic Ultrasound Phantom (3 units/7-week) **41909-100**



SET INCLUDES

- ✓ 7-week pregnancy unit (41909-050)
- ✓ Ectopic pregnancy unit (41909-040)
- ✓ Pathological unit (41909-030)

US-10 Female Pelvic Ultrasound Phantom (2 units) **41909-000**



SET INCLUDES

- ✓ Ectopic pregnancy unit (41909-040)
- ✓ Pathological unit (41909-030)

3 MORE SET OPTIONS AVAILABLE

Explore all configurations, included units, and product details on our website

VIEW ALL SETS ➡

https://www.kyotokagaku.com/en/products_introduction/us-10/



CUSTOM-BUILD

Build your own configuration

Customize your training setup by combining the **41909-300** lower torso with the units of your choice

Lower torso
41909-300



+ CHOOSE FROM 6 UNITS = CUSTOM TRAINING SET

IUD unit

Code 41909-080

IUD Placement Confirmation

NEW Follicular phase unit

Code 41909-090

Endometrium (Proliferative Phase)
Normal Ovary (Follicular Phase): Right Ovary

Normal pregnancy (7-week) unit

Code 41909-050

Normal Pregnancy (7 Weeks)

Normal pregnancy (10-week) unit

Code 41909-070

Normal Pregnancy (10 Weeks)

Ectopic pregnancy unit

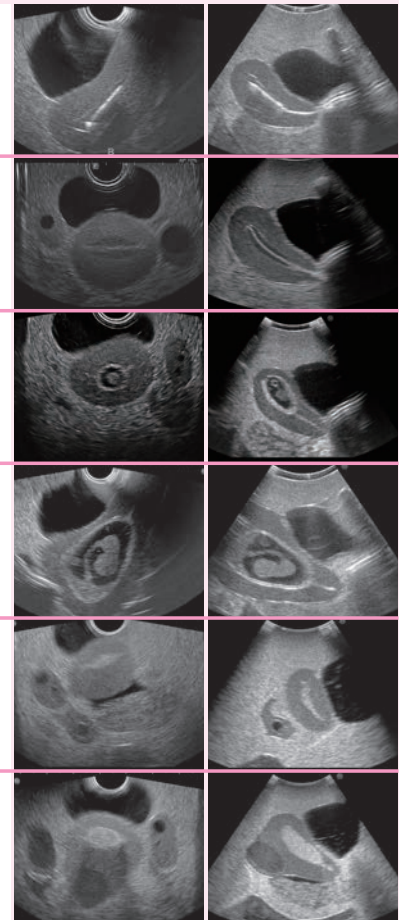
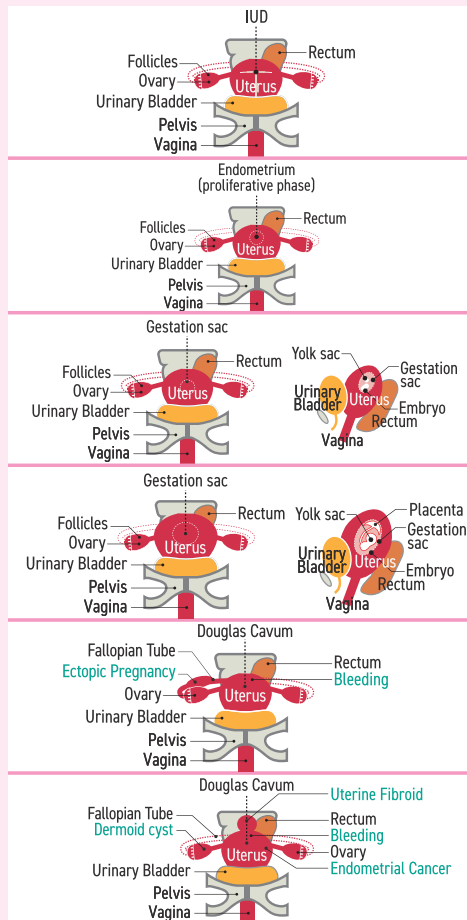
Code 41909-040

Ectopic Pregnancy (Ampullary Portion of the Fallopian Tube)
Hemorrhage in the Douglas Pouch

Pathological unit

Code 41909-030

Endometrial Cancer
Ovarian Cyst
Uterine Fibroid
Hemorrhage in the Douglas Pouch



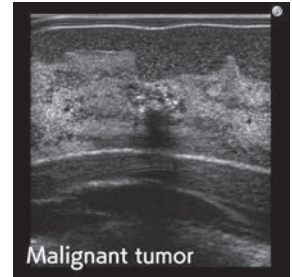
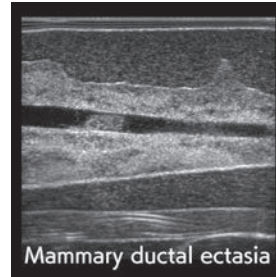
Breast Ultrasound Examination Phantom BREAST FAN

Basic ultrasound examination practice with typical breast conditions



Video Available

Item No.	Code
US-6	41904-000



FEATURES

- | 01 Facilitates practice in basic surface scanning and identification of abnormal breast conditions
- | 02 Replicates several breast conditions and detailed anatomy such as axillary lymph nodes, subcutaneous fat, ducts, Cooper's ligaments, posterior breast lipoma, ribs, clavicle, pectoralis major, and lung
- | 03 All diseases differ in size

SKILLS

Basic surface scanning techniques in breast ultrasound
Depiction of representative breast diseases

Recommended devices:

- Linear transducer

ANATOMY / CASES / PATHOLOGIES

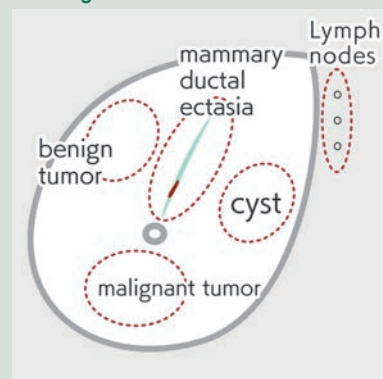
Anatomy:

Axillary lymph nodes / Subcutaneous fat / Mammary ducts /
Cooper's ligaments / Ribs / Clavicle / Pectoralis major

Cases:

Benign tumor / Breast cancer / Cyst / Duct ectasia / Posterior breast lipoma

Practice longitudinal, transverse and rotational scanning techniques as well as duct tracking and related scanning methods



DESCRIPTIONS

SPECIFICATIONS

Main unit: breast model	x D17.7 in)
Size: [Main unit] W26 x D38 x H11	Weight: approx. 7 kg (15.4 lb)(total)
cm (W10.2 x D15 x H4.3 in)	Material: Polyurethane elastomer/
[base plate] W33 x D45 cm (W13	Latex free

Product Supervision:

Tokiko Endo, MD, PhD
Director of Department of Advanced Diagnosis, Clinical Research Center, National Hospital
Organization Nagoya Medical Center Director of Department of Radiology
National Hospital Organization Nagoya Medical Center

SET INCLUDES

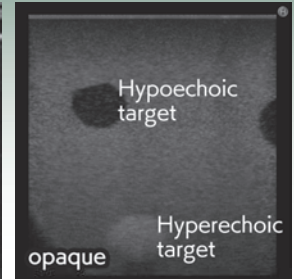
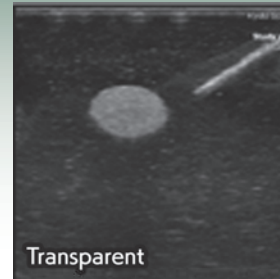
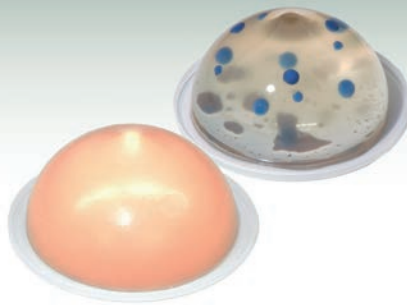
- 1 Ultrasound phantom
- 1 Talcum powder
- 1 Storage case

RELATED PRODUCTS

M44 Visual-Tactile Breast Examination Simulator
PH-83 Compressible Mammography Phantom Comp-AY
US-9 Ultrasound-Guided Breast Biopsy Phantom

Ultrasound-Guided Breast Biopsy Phantoms

Breast biopsy training with soft transparent and opaque materials



Item No.	Code	
US-9	11387-000	Duo set
	11387-100	Transparent set
	11387-200	Opaque set

FEATURES

- | 01 Facilitates Fine Needle Aspiration Biopsy (FNAB), Core Needle Biopsy (CNB), and Mammotome biopsy
- | 02 Lesions are colored for easy confirmation of successful tissue sample acquisition
- | 03 Transparent phantom intended for beginners, and opaque one, with its two target types, for advanced learners

SKILLS

- Hand-eye coordination
- Localization of targets under ultrasound guidance
- Tissue sample acquisition

Recommended devices:

- Linear transducer
- Biopsy needle: 14 G x 160 mm (6.3 in), 22 mm (0.87 in)

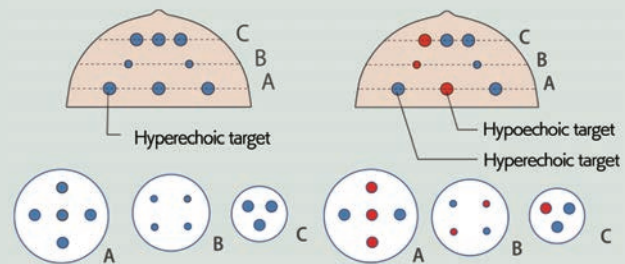
ANATOMY / CASES / PATHOLOGIES

Target types

Transparent type:
12 hyperechoic targets (blue)

Opaque type:
6 hyperechoic targets (blue) / 6 hypoechoic targets (red)

Targets are embedded at three different depths, allowing users to practice needle insertion at various angles and depths.



DESCRIPTIONS

SPECIFICATIONS

Size: approx. Dia. 16 x H8 cm (Dia. 6.3 x H3.1 in)
Weight: approx. 700 g (24.7 oz)
Material: Hydrogel/Latex free

Note: This product cannot be stored for long-term after opening, and is intended for a short-term-use. Do not open before use.

SET INCLUDES

2 Breast biopsy phantoms
11387-000: transparent + opaque
11384-100: 2 transparent phantoms

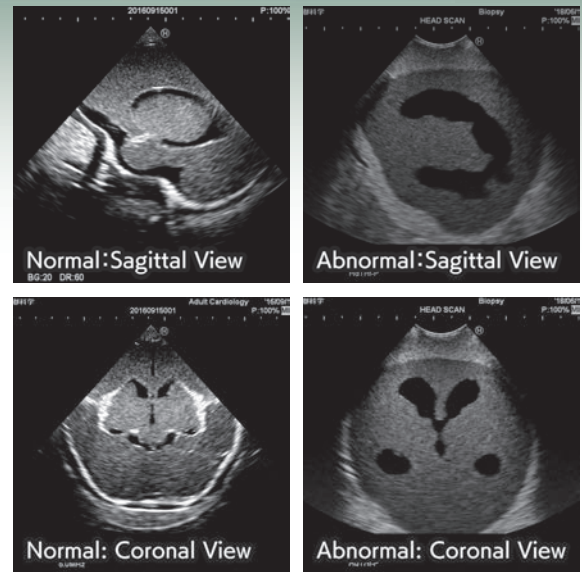
11387-200: 2 opaque phantoms

RELATED PRODUCTS

US-4B Small Parts Basic QA Phantom
US-4 Breast Ultrasound Phantom
US-6 Breast Ultrasound Examination Phantom BREAST FAN

Ultrasound Neonatal Head Phantoms

Acquire the necessary skills for neonatal cranial ultrasound in NICU



Item No.	Code	
US-14a	41917-000	Normal
US-14b	41915-000	Abnormal (hydrocephalus)

FEATURES

- | 01 Designed for assessment of the neonatal cerebral ventricles under ultrasound
- | 02 Replicates characteristics of the neonatal cranium, skull anatomy and allows scanning through the fontanelles
- | 03 Facilitates comparison of normal and abnormal findings

SKILLS

Transducer positioning and orientation for neonatal cranial ultrasound examinations
Scanning through the anterior, posterior, and temporal fontanelles
Deep understanding of standard planes (sagittal and coronal)
Interpretation and classification of ultrasound images

Recommended devices:
- Sector transducer

ANATOMY / CASES / PATHOLOGIES

Normal model:

Detailed reproduction of landmarks in standard neonatal cerebral planes

Anatomy:

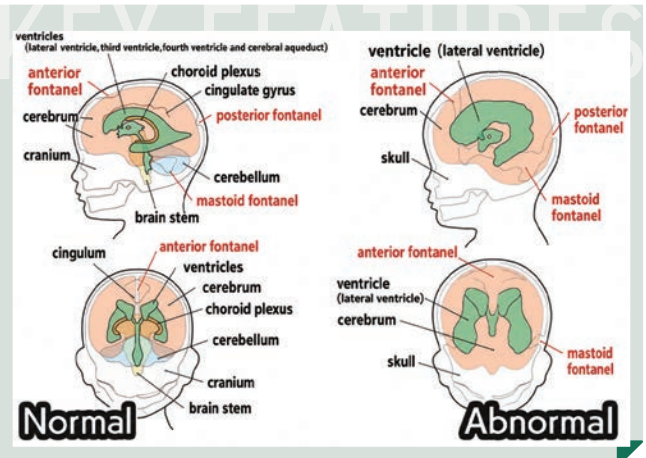
Skull (anterior fontanelle, posterior fontanelle, anterior temporal fontanelle, posterior temporal fontanelle) / Cerebrum / Cerebellum / Brainstem / Choroid plexus / Cingulate gyrus / Ventricles (lateral ventricles, third ventricle, fourth ventricle, cerebral aqueduct) / Septum pellucidum

Hydrocephalus model:

Reproduces cranial enlargement caused by increased intracranial pressure

Anatomy:

Skull (anterior fontanelle, posterior fontanelle, anterior temporal fontanelle, posterior temporal fontanelle) / Cerebrum / Lateral ventricles with hydrocephalus



DESCRIPTIONS

SPECIFICATIONS

Normal model:

Main unit: neonatal head (normal) model
Size: W13 x D13 x H17 cm
(W5.1 x D5.1 x H6.7 in)
Weight: approx. 1.5 kg (3.3 lb)
Material: Polyurethane elastomer/
Latex free

SET INCLUDES

For both normal and abnormal
phantoms:
1 ultrasound phantom head

Abnormal model:

Main unit: neonatal head (hydrocephalus) model
Size: W13 x D20 x H14 cm
(W5.1 x D7.9 x H5.5 in)
Weight: approx. 1.5 kg (3.3 lb)
Material: Polyurethane elastomer/
Latex free

1 talcum powder
1 storage case

Product Supervision:

Charlotte Henningsen, MS, RT(R), RDMSRV, FSDMS, FAIUM
Chairperson & Professor - Sonography Department
Adventist University of Health Sciences

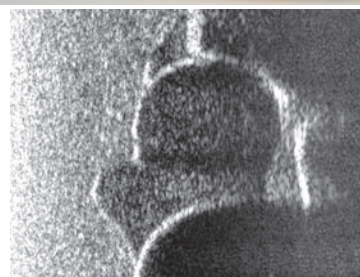
RELATED PRODUCTS

US-13 Infant Hip Sonography Training Phantom
US-8 Pediatric FAST/Acute Abdomen Phantom



Infant Hip Sonography Training Phantom

A training phantom designed for practicing the early detection of developmental dysplasia in the hip (DDH) using the Graf method



Item No.
US-13

Code
41914-000

FEATURES

- | 01 Differentiation of hip joints of a six-week-old infant (normal / dysplasia)
- | 02 Realistically represents the anatomical landmarks used to identify the Graf standard plane
- | 03 Movable shoulder, elbow and knee joints for practicing patient positioning during examination

SKILLS

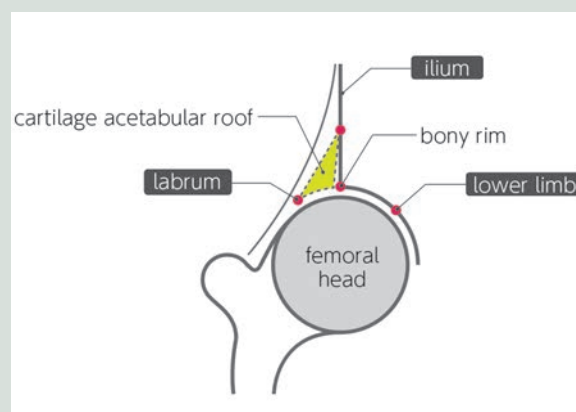
Patient positioning
Understanding anatomical landmarks
Pediatric hip ultrasound image assessment using the Graf method

Recommended devices:
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Femoral head / Greater trochanter / Labrum / Lower end of the ilium / Bony acetabular rim / Cartilaginous acetabulum

Compare standard, anterior, and posterior plane



DESCRIPTIONS

SPECIFICATIONS

Main unit: infant torso
Size: W55 x D25 x H13 cm (W21.7 x D9.8 x H5.1 in)

Weight: approx. 3 kg (6.6 lb)
Material: Hard resin/Polyurethane elastomer/Latex free

Notes: Supporting cushion is not included.

Product Supervision:
Univ. Prof. Prof. h.c. Reinhard Graf, M.D.

SET INCLUDES

- 1 Ultrasound phantom
- 1 Talcum powder
- 1 Storage case

RELATED PRODUCTS

US-8 Pediatric FAST/Acute Abdomen Phantom
US-14a/b Ultrasound Neonatal Head Phantom
MW32 NCPR Simulator

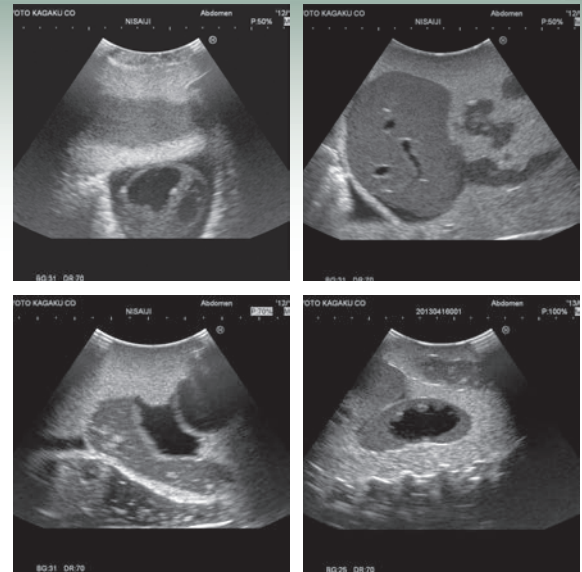
Pediatric FAST/Acute Abdomen Phantom

Torso of a two-year-old patient, designed for FAST and acute abdomen ultrasound training



Video Available

Item No.	Code
US-8	41906-000



FEATURES

- | 01 Allows repeated practice in ultrasound assessment for abdominal trauma
- | 02 Includes typical pediatric acute abdominal conditions, such as hydronephrosis and intussusception, in addition to regular FAST scanning sites
- | 03 Tissue-mimicking acoustic material with anatomically correct organs and observable vascular structures

SKILLS

Assessment of abdominal trauma and acute abdominal conditions

Recommended devices:
- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Skeletal structures:

Ribs / Spine / Pelvis

Internal organs:

Heart / Lungs / Liver / Spleen / Pancreas / Kidneys / Large intestine / Bladder / Psoas major / Abdominal aorta / Inferior vena cava

Hemorrhages:

Pericardial region / Peripulmonary region / Inferior to the spleen / Perihepatic region / Pelvic region

Emergency cases:

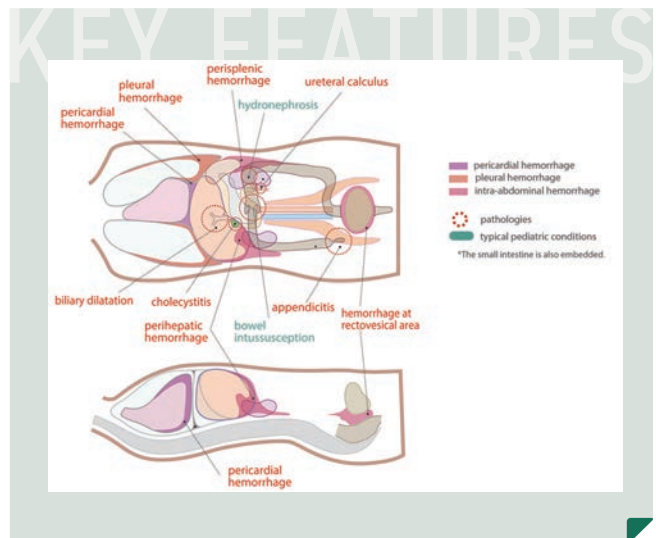
Common bile duct dilation / Cholecystitis / Ureteral stone / Appendicitis / Intussusception / Hydronephrosis

Product Supervision:

Shunsuke Nosaka, MD, PhD
Director of Radiology
National Medical Center for Children and Mothers

RELATED PRODUCTS

US-5 FAST/Acute Abdomen Phantom FAST/ER FAN
US-13 Infant Hip Sonography Training Phantom
US-14a/b Ultrasound Neonatal Head Phantoms
PH-2C Pediatric Whole Body Phantom "PBU-70"



DESCRIPTIONS

SPECIFICATIONS

Main unit: pediatric thoracoabdominal model
Size: approx. W41 x D15 x H15 cm (W16.1 x D5.9 x H5.9 in)

Weight: approx. 7 kg (15.4 lb)
Material: Polyurethane elastomer/
Latex free

SET INCLUDES

1 pediatric fast/acute abdomen phantom
1 talcum powder

1 storage case



Lung Ultrasound Training Phantom ECHOLUNG

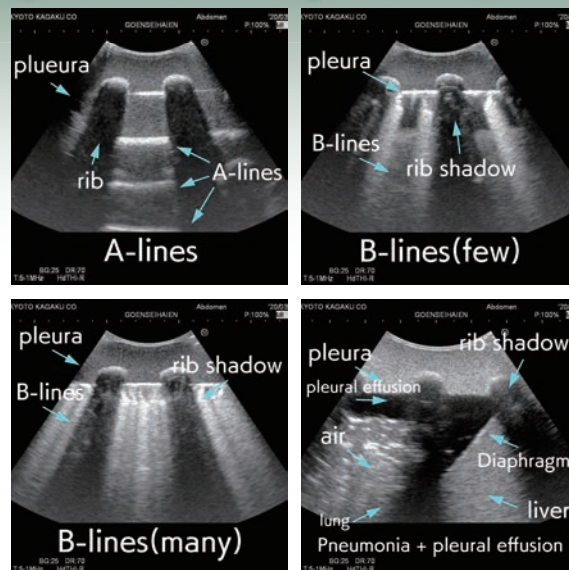
Chest model with interchangeable units featuring four different lung conditions, from normal to severe pneumonia



Item No.	Code	
US-19	41946-000	Basic set
	41946-100	Full set
	41946-110	Additional cube set

FEATURES

- | **01** Four units allow for practice in clinical decision making, e.g. from the initial assessment of aspiration pneumonia to follow-up observations
- | **02** Palpable ribs and intercostal spaces support transducer positioning and scanning using surface landmarks
- | **03** Interchangeable units enable training tailored to different skill levels



SKILLS

Assessment of lung conditions
Clinical decision-making

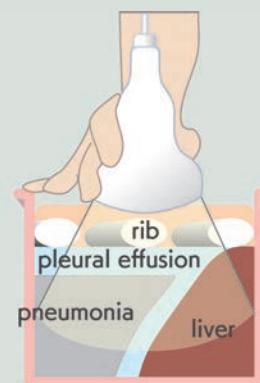
Recommended devices:
- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Ribs
Lung

Cases:
A-lines (normal) / B-lines (few) / B-lines (many) / Pneumonia + pleural effusion

Pneumonia + pleural effusion unit contains ribs, pleural effusion, lung with pneumonia, and liver



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult thorax model [A-lines/B-lines, 2 types] 0.9 kg (2 lb)
Size: [body] W32 x D25 x H12.5 cm [pleural effusion + pneumonia] 1.4 kg (3.1 lb)
(W12.6 x D9.8 x H4.9 in)
[cube] W11.5 x D15 x H11 cm (W4.5 x D5.9 x H4.3 in)
Weight: [body] 1.9 kg (4.2 lb)
Material: Hard resin/Polyurethane elastomer/Latex free

Product Supervision:

Tadashi Kobayashi
Hiroaki University, School of Medicine&Hospital Department of General Medicine

SET INCLUDES

	41946-000 Basic set	41946-100 Full set	41946-110 Additional cube set
1 Main body	✓	✓	
1 Talcum powder	✓	✓	
1 Storage case	✓	✓	
Lung cubes:			
- A-lines (normal)	right	right / left	left
- B-lines (few)	left	right / left	right
- B-lines (many)	right	right / left	right
- Pneumonia + pleural effusion	right	right / left	left

RELATED PRODUCTS

17 MW28 Lung Sound Auscultation Trainer LSAT Version II
PH-1 Multipurpose Chest Phantom N1 "LUNGMAN"

Ultrasound Examination –POCUS–

Consumables, replacement parts, and optional accessories are listed at the end of this catalog

Nasogastric Tube Placement Ultrasound Training Phantom

Designed for nasogastric tube placement under ultrasound



Item No.	Code
US-20	41947-000

FEATURES

- | 01 Trachea, esophagus, sternum and clavicle serve as landmarks during scanning
- | 02 Different insertion routes enable ultrasound assessment of correct or wrong catheter placement

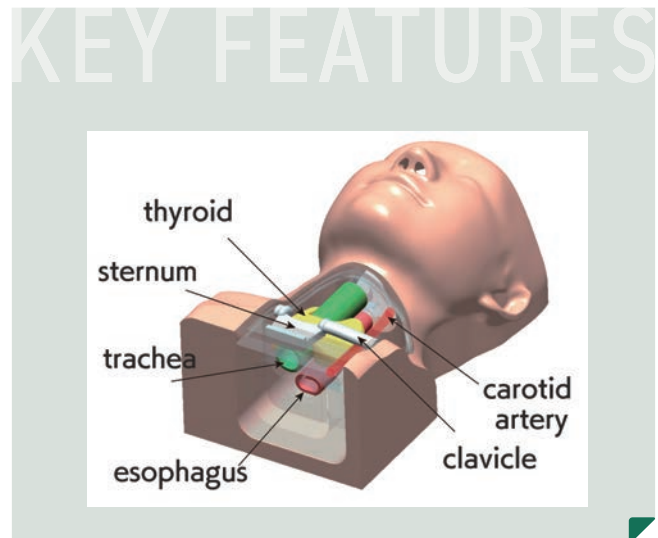
SKILLS

Confirmation of nasogastric tube catheter position using an ultrasound diagnostic system

Recommended devices:
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Thyroid gland / Carotid artery / Clavicle / Sternum / Trachea / Esophagus



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult head and thoracic model	Weight: [body] 1.8 kg (4 lb)
Size: [body] approx. W30 x D18 x H17 cm (W11.8 x D7.1 x H6.7 in)	[cube] 1.1 kg (2.4 lb)
[cube] approx. W17 x D10 x H10 cm (W6.7 x D3.9 x H3.9 in)	Material: Hard resin/Polyurethane elastomer/Latex free

Product Supervision:

Tadashi Kobayashi
School of Medicine & Hospital Department of General Medicine, Hirosaki University

SET INCLUDES

1 main body	1 urethan block
1 ultrasound neck block	1 talcum powder
1 nasogastric tube	1 storage case
1 syringe	Note: Ultrasound system not included.
1 catheter	
1 surplug	

RELATED PRODUCTS

MW8A Tube Feeding Simulator PLUS

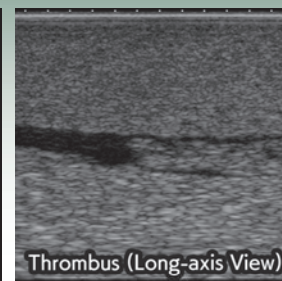
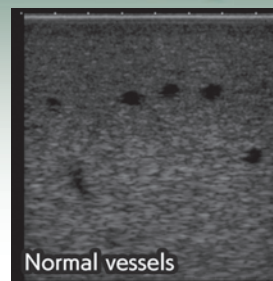
DVT (Deep Vein Thrombosis) Screening Phantom

Designed for training in DVT screening



Item No.
US-21

Code
41950-000



FEATURES

- | 01 Accurately represents vessel tortuosity, branching, and thrombus
- | 02 Facilitates practice of transducer handling techniques for lower-extremity venous thrombosis screening in the calf

SKILLS

Screening for lower-extremity deep vein thrombosis
Observation of blood flow using milking technique

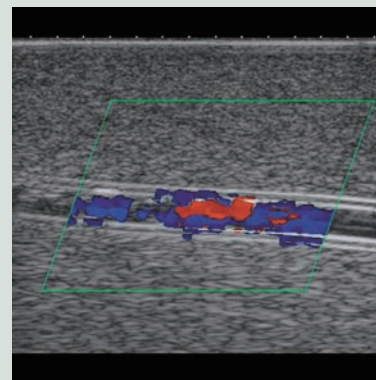
Recommended devices:

- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Veins (branching, thrombus, tortuosity)

Includes vessels that allow milking
Transducer compression demonstrates vessel collapse



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult lower leg model
Size: approx. W27 x D17 x H47 cm
(W10.6 x D6.7 x H18.5 in)

Weight: approx. 3 kg (6.6 lb)
Material: Hard resin/Polyurethane elastomer/Latex free

SET INCLUDES

1 lower limb manikin
1 ultrasound calf phantom (incorporated)

1 talcum powder
1 storage case

Product Supervision:

Kenji Karino, Professor, Clinical Skill-Up Center, Shimane University Hospital

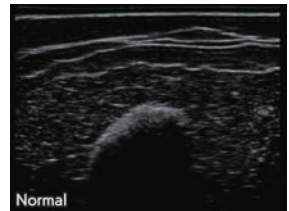
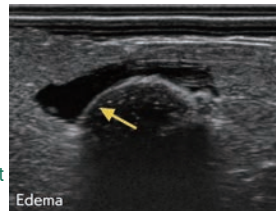
Pressure Sores Simulator

Designed for comprehensive training in the visual assessment, palpation, and ultrasound examination of pressure ulcers, as well as in related care procedures



Item No.	Code	
MW63	11446-000	Full set *
	11446-100	Basic set

*Includes ultrasound pads and necrotic tissue removal set



FEATURES

- | 01 Pressure ulcers at common sites: sacrum, ischium, and greater trochanter
- | 02 Realistic pocket spread, exudate, and necrotic tissue texture
- | 03 Lower torso manikin facilitates practice in wound cleansing, dressing, application of topical medication (edema in the ischial region), and aftercare

SKILLS

Pressure ulcer stage assessment
 Palpation of wound area
 Ultrasound assessment (edema in the ischial region)
 Cleansing of wounds and periwound area
 Application of dressings, topical medications, and negative-pressure wound therapy
 Debridement (surgical techniques)
 Pressure ulcer prevention

Recommended devices:

- Linear transducer
- Forceps / Scalpel

ANATOMY / CASES / PATHOLOGIES

Sacral torso / Greater trochanteric region / Ischial region

DESCRIPTIONS

SPECIFICATIONS

Size: W44 x D40 x H38 cm (W17.3 x D15.7 x H15 in)
 Weight: 3.8 kg (8.4 lb)

Product Supervision:

MD, PhD, Professor Hiroto Terashi, Plastic and Reconstructive Surgery, Kobe University School of Medicine
 Masaharu Sugimoto, Part-time Lecturer, Toyama University of Rehabilitation Medicine and Welfare
 Madoka Noguchi, Nursing Department, Kobe University Hospital

RELATED PRODUCTS

MW72 Strap-on Ostomy Care Trainer
 MW25 Patient Care Simulator "Yaye"
 MW26 Basic Patient Care Simulator "Keiko"

Realistic texture, reproduced with the included kit of simulated exudate and necrotic tissue, enables variety of wound conditions



SET INCLUDES

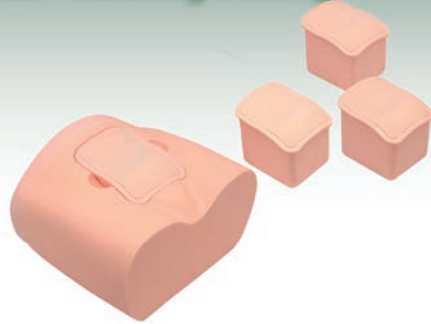
- 1 lower torso manikin
- 1 sacral pressure ulcer pad, Stage II
- 1 sacral pressure ulcer pad, Stage III
- 1 sacral pressure ulcer pad, Stage IV (with granulation)
- 1 sacral pressure ulcer pad, Stage IV (with pocket)
- 1 ischial pressure ulcer pad, Stage IV
- 1 set of 2 ultrasound pads*
- 1 necrotic tissue removal set*

- 1 consumables set
- 2 simulated pus
- 2 simulated blood
- 2 simulated exudate
- 1 simulated necrotic tissue set
- 1 storage case

Note: *Not included in the basic set.
 Note: Ultrasound system not included in either set.

Intradermal Urine Volume Measurement Phantom

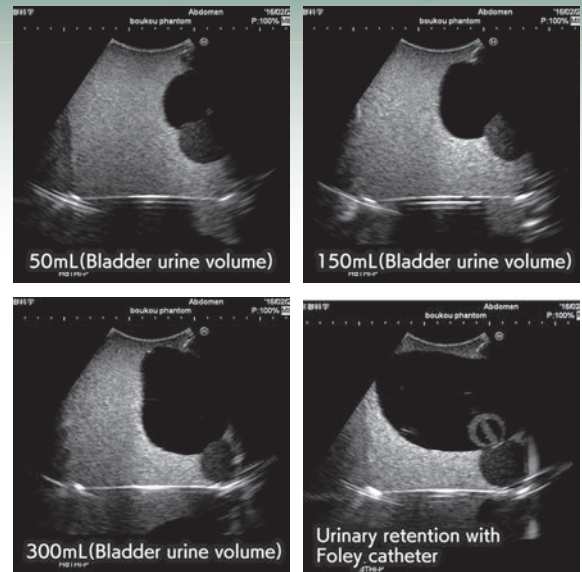
Four cubes representing different bladder volumes from dehydration to urinary retention support clinical reasoning training



Item No.	Code
US-16	41932-000
US-16A	41932-100 for Bladder Scanner Compatible

FEATURES

- | 01 Compatible with both common ultrasound systems as well as pocket ultrasound devices for training in patient residence visits and nursing homes
- | 02 Facilitates comprehensive urinary care training for recovery of lower urinary tract function in hospitals as well as any related facilities



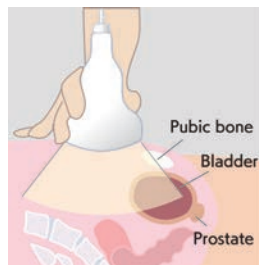
SKILLS

Confirmation of bladder urine volume under ultrasound
Clinical decision making
Clinical reasoning

Recommended devices:
- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Bladder / Pubic bone / Prostate



DESCRIPTIONS

SPECIFICATIONS

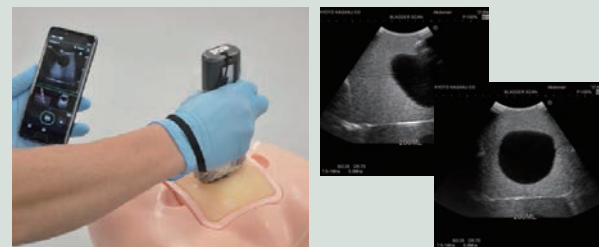
Main unit: adult pelvic model x D4.7 x H5.1 in)
Size: [body] W30 x D26 x H18 cm Weight: [body] 3.2 kg (7.1 lb)
[cube] W11.8 x D10.2 x H7.1 in [cube] 1.5 kg (3.3 lb)
[cube] W14 x D12 x H13 cm (W5.5 Material: Soft resin/Latex free

Product Supervision:

Tadashi Kobayashi
School of Medicine&Hospital Department of General Medicine, Hirosaki University

NEW VARIATION

US-16A
Intravesical Urine Volume Measurement Phantom
Bladder Scanner Compatible



- | 01 Compatible with bladder scanners*
- | 02 Representing female bladder (no prostate)

*The phantom is tested and compatible with a range of major bladder scanners

SET INCLUDES

1 lower torso manikin	1 bladder cube (urinary retention + balloon catheter)
1 bladder cube (50 mL)	1 talcum powder
1 bladder cube (150 mL)	1 storage case
1 bladder cube (300 mL)	

RELATED PRODUCTS

US-23 Rectal and Bladder Ultrasound Phantom

Rectal and Bladder Ultrasound Phantom

Ultrasound training cubes for assessment of residual urine and excretion



Model A: Small Bladder with Hard Stool



Model B: Medium Bladder / Soft Stool



Model C: Large Bladder with Foley Catheter / Hard Stool / Soft Stool / Empty

Item No. US-23
Code 41953-000

FEATURES

- | 01 Residue excretion variations in the rectum, for ultrasound assessment: hard stool / soft stool / hard and soft stool with empty rectum
- | 02 Variations of urinal bladder sizes for assessment and measurement of urine volume: small / medium / large bladder with balloon catheter

SKILLS

Assessment of residue excretion in the rectum
Measurement of urine volume
Assessment of the urinal bladder and prostate
Assessment of the indwelling balloon catheter

Recommended devices:
- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Rectum:
Hard stool / Soft stool / Hard/soft stool / Empty bowel

Bladder:
Small, medium, and large urine volumes / Indwelling balloon catheter

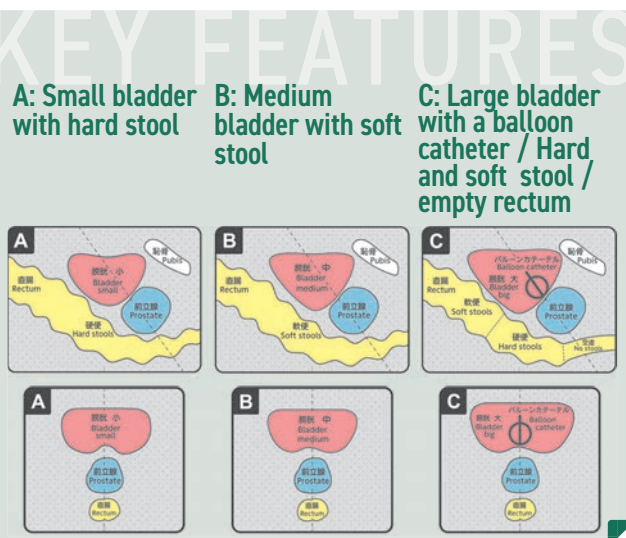
DESCRIPTIONS

SPECIFICATIONS

3 adult rectum and bladder cubes
Size: approx. W15 x D15 x H20 cm
(W5.9 x D5.9 x H7.9 in) each cube
Weight: 2 kg (4.4 lb) each cube
Material: Soft resin/Hard resin/
Latex free

Product Supervision:

Hiromi Sanada, RN, PhD, WOCN, FAAN President Ishikawa Prefectural Nursing University
Masaru Matsumoto, Asst. Professor Ishikawa Prefectural Nuring University



SET INCLUDES

1 unit A: small bladder / hard stool
1 unit B: medium bladder / soft stool
1 unit C: large bladder with balloon catheter / hard & soft stool, empty rectum
1 talcum powder
1 storage case

RELATED PRODUCTS

US-16 Intradermal Urine Volume Measurement Phantom

Scrotal Ultrasound Phantom

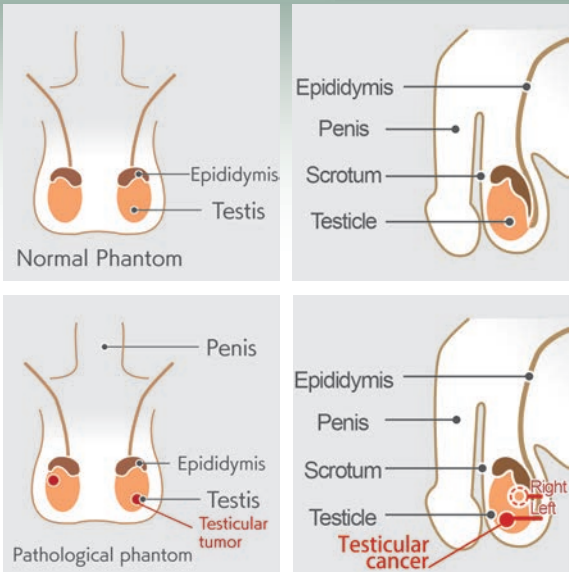
Hands-on training to diagnose scrotum abnormalities



Item No.	Code
US-11	41911-000

FEATURES

- | 01 Realistic anatomy confirmed with ultrasound
- | 02 Washable and detachable phantom units for easy cleanup



SKILLS

Testicular ultrasound examination training

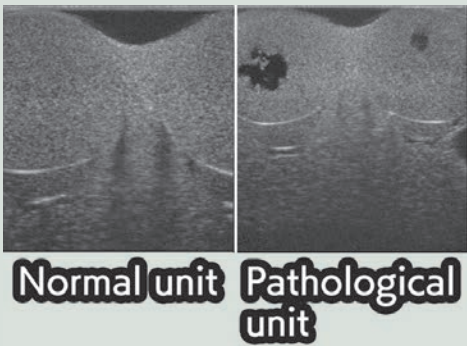
Recommended devices:
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Normal Phantom:
Epididymis / Penis / Scrotum / Testicle

Pathological Phantom:
Epididymis / Penis / Scrotum / Testicle
Testicular cancer: one each in left and right testis, 10mm dia.

Two interchangeable scrotum units are included:



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult male pelvic model	Weight: 3.6 kg (7.9 lb)
Size: W34 x D33 x H24 cm (W13.4 x D13 x H9.4 in)	Material: Soft resin/Latex free

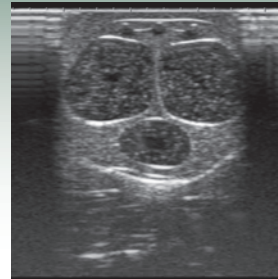
Product Supervision:
Charlotte Henningsen, MS, RT(R), RDMS, RVT, FSDMS, FAIUM
Chairperson & Professor - Sonography Department
Adventist University of Health Sciences

SET INCLUDES

- | | |
|--|------------------------|
| 1 lower torso manikin | 1 pathological scrotum |
| 1 phantom holder (outer and inner frame, skin) | 1 Talcum powder |
| 1 normal scrotum | 1 Storage case |

Penile Ultrasound Examination Phantom

For practical, hands-on training in penile ultrasound examination



Item No.	Code
US-26	41961-000

FEATURES

- | **01** Anatomically accurate structures provide clinically realistic ultrasound images.
- | **02** The flexible penis allows natural handling and positioning for scanning at various angles.
- | **03** Removable phantom part allows easy cleaning of residual gel after training.

SKILLS

Ultrasound examination of the penis and penile urethra

[Recommended Devices]
Linear transducer

CASES / PATHOLOGIES / ANATOMY

Corpora cavernosa of the penis
Corpus spongiosum
Urinary tract
Blood vessels

KEY FEATURES

Anatomical details supports convincing hands-on training

DESCRIPTIONS

SPECIFICATIONS

Main unit: adult male pelvic model	Material: Soft resin/Latex free
Size: W34 x D33 x H24 cm (W13.4 x D13 x H9.4 in)	

SET INCLUDES

- | | |
|---------------|-----------------|
| 1 Pelvic body | 1 Talcum powder |
| 1 Normal unit | 1 Storage case |
| 1 Tumor unit | |

Rheumatoid Hand Phantom

Ultrasound examination training is a key factor for early rheumatoid arthritis diagnosis



Item No.	Code
US-17	41933-000

FEATURES

| 01 Hand phantom with pathological findings, commonly associated with rheumatoid arthritis

SKILLS

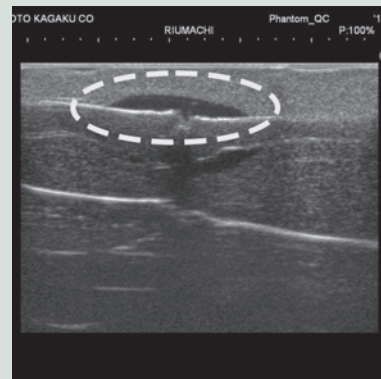
Ultrasound examination of wrist and finger joints
Distinction of pathologies

Recommended devices:
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Rheumatoid arthritis:
Synovial thickening

Features synovial thickening and increased synovial fluid on middle and ring finger



DESCRIPTIONS

SPECIFICATIONS

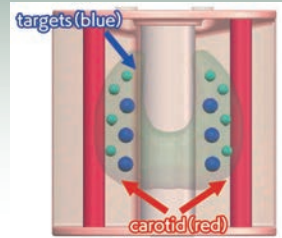
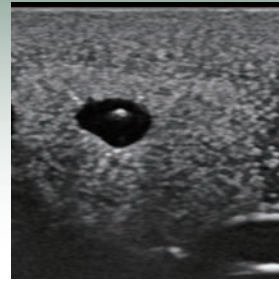
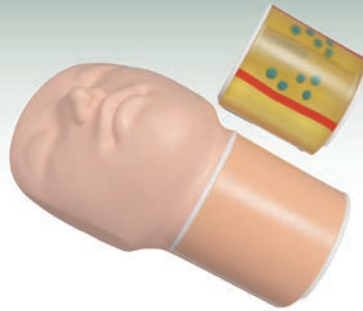
Main unit: right hand model	Weight: approx. 0.6 kg (1.3 lb)
Size: W17 x D5 x H21 cm (W6.7 x D2 x H8.3 in)	Material: Polyurethane elastomer/ Latex free

SET INCLUDES

- 1 rheumatism hand phantom
- 1 talcum powder
- 1 storage case

Thyroid Biopsy Phantom

Thyroid biopsy phantom for fine-needle aspiration cytology training



Item No.	Code
US-25	41957-000



FEATURES

- | 01 Easy set-up with two types of replaceable puncture pads
- | 02 Material suitable for ultrasound-guided biopsy training
- | 03 Anatomy includes carotid arteries and fluid-filled targets
- | 04 Multiple puncture sites

SKILLS

Thyroid biopsy (fine-needle aspiration cytology)

Recommended devices:

- Linear transducer
- Biopsy needle: 23 G

Note: Using needles larger than recommended may damage the phantom or lead to procedure failure

ANATOMY / CASES / PATHOLOGIES

Targets:

- 6 Blue, approx. $\varnothing$ 7 mm (0.28 in)
- 8 Green, approx. $\varnothing$ 5 mm (0.20 in)

Blood Vessels:

- 2 red vessels(left and right), approx. $\varnothing$ 10 mm (0.39 in) diameter

Colored simulated lesions serve as proof for successful sample acquisition confirmation



DESCRIPTIONS

SPECIFICATIONS

Size: W26 x D14 x H12 cm (W10.2 x D5.5 x H4.7 in) Material: Soft resin / Hard resin / Hydrogel / Latex free

Weight: 1.5 kg (3.3 lb)

Product Supervision:

Shogo Nakano, M.D., Ph.D.
Professor, Department of Breast and Endocrine Surgery, Aichi Medical University

SET INCLUDES

- 1 face and neck manikin
- 1 transparent biopsy block
- 1 opaque biopsy block

- 1 storage case

RELATED PRODUCTS

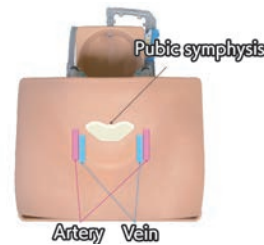
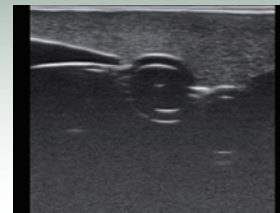
MW62 Thyroid Palpation Simulator
MW30 Head and Neck Palpation Trainer
US-9 Ultrasound-GUIDed Breast Biopsy Phantom

Femoral Arterial Puncture Trainer

Puncture site confirmed with both landmark- and ultrasound-guided femoral access training



Item No.	Code
MW82	11486-000



FEATURES

- | 01 Reproduces palpable arterial pulse and natural blood- and counterflow
- | 02 Pelvic manikin includes anatomical landmarks, bilateral arteries and veins
- | 03 Creates realistic needle resistance
- | 04 Durable material acts against visible puncture traces around the injection site

SKILLS

Landmark-guided femoral artery puncture
 Ultrasound-guided femoral arterial puncture
 Blood sampling

Recommended devices:

- Injection needle: 23 G
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Femoral artery / Femoral vein / Pubic bone

Palpable pubic bone and femoral pulse, confirmed as landmarks for arterial puncture and blood sampling training



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult pelvic model	(main unit)
Size: approx. W33 x D35 x H15 cm	Material: Soft resin/Latex free
(W13 x D13.8 x H5.9 in) (main unit)	Power supply: AC100V-240V 50/60 Hz
Weight: approx. 3.4 kg (7.5 lb)	Power consumption: 8W

Product Supervision:

Yoko Mitomi, RN, CWOCN
 Head Nurse, Department of Nursing Management Office, Kyoto University Hospital

SET INCLUDES

1 ultrasound phantom	1 syringe
1 circulation pump	1 disposable cup
2 simulated vessels (arteries)	1 drainage tube
2 simulated vessels (veins)	1 storage case
10 cotton swabs (red)	

RELATED PRODUCTS

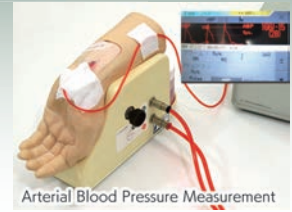
M99 Arterial Puncture Training Wrist
 MW66 Superficial Artery Puncture Trainer

NEW



Arterial Puncture Training Wrist / Ultrasound-Guided Arterial Puncture Pad

Hands-on training in arterial blood sampling and a line placement
Supplied with the new ultrasound-guided puncture pad



Item No.	Code	
M99	11351-000	Arterial Puncture Training Wrist
	11351-110	Ultrasound Guided Arterial Puncture Pads (incl. skin)

FEATURES

- | **01 Radial artery line placement and ABP measurement training scenarios**
(Arterial pressure values will not be reproduced)
- | **02 Simulates palpable arterial pulse and reproduce natural blood- and counterflow**
- | **03 Realistic needle resistance**
- | **04 No puncture traces remain visible on the injection site**

SKILLS

Radial artery puncture
Arterial blood sampling
Arterial line placement
Ultrasound-guided arterial puncture and blood sampling
(11351-110)

Recommended devices:

- Arterial blood sampling kit: 22-25 G
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Radial artery

The new ultrasound-guided arterial puncture pad (11351-110) is compatible with all common ultrasound diagnostic devices.



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult wrist model
Size: approx. W9 x D30 x H18 cm
(W3.5 x D11.8 x H7.1 in) (main unit)
Weight: 1.5 kg (3.3 lb) (main unit)

Material: Soft resin/Latex free
Power supply: AC100V-240V 50/60 Hz
Power consumption: 8W

Caution: Only the ultrasound-guided arterial puncture pad (11351-110) is suitable for ultrasound-guided training. This pad is not included in the regular Arterial Puncture Training Wrist Set.

Product Supervision:

Dr. Hiroshi Koyama, Medical Director, General Internal Medicine
National Hospital Organization Kyoto Medical Center

SET INCLUDES

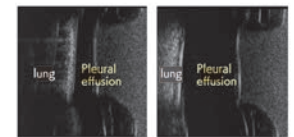
11351-000:	1 syringe (50ml)
1 hand model	1 tube (irrigation: black ring)
1 arm stand	1 tube (drainage: red ring)
2 sets of puncture skin (outer and inner layer)	1 AC adapter
4 artery tubes	1 power cable
1 silicone belt	1 storage case
1 bone stand	
1 circulation pump	11351-110:
10 cotton swabs (red)	2 ultrasound-guided arterial puncture pads
1 bottle	1 set of puncture skin (outer)

RELATED PRODUCTS

MW66 Superficial Artery Puncture Trainer
MW82 Femoral Arterial Puncture Trainer

Ultrasound-Guided Thoracentesis / Pericardiocentesis Simulators

Simulator for ultrasound-guided thoracentesis and pericardiocentesis training



Item No.	Code	
MW4	11383-000	Ultrasound-Guided Thoracentesis Simulator
MW4A	11383-100	Ultrasound-Guided Thoracentesis Simulator - Strap-on Set
MW15	11394-000	Pericardiocentesis Simulator
MW17	11396-000	Full set

FEATURES

- | 01 Determination of puncture site with ultrasound-check-up and landmark
- | 02 Realistic anatomy provides life-like needle tip sensation during insertion
- | 03 One manikin suitable for pericardiocentesis and thoracentesis training and includes wearable thoracentesis pads for simulated patients

SKILLS

Thoracentesis:

- Patient positioning
- Ultrasound assessment of pleural effusion level & volume
- Determination of puncture site by palpation
- Needle insertion to the pleural space
- Aspiration of pleural fluid

Pericardiocentesis:

- Patient positioning
- Ultrasound assessment of pericardial fluid
- Landmark palpation
- Needle insertion to the pericardial space
- Aspiration of pericardial effusion

Recommended devices:

- Thoracentesis: 22-23 G needle
- Pericardiocentesis: 18 G needle

ANATOMY / CASES / PATHOLOGIES

Thoracentesis:

Ribs / Lung / Diaphragm / Pleural effusion / Soft tissue

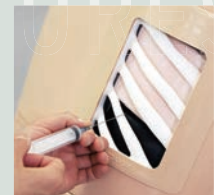
Pericardiocentesis:

Heart / Liver / Aorta / Pericardial effusion

Product Supervision:

Takahiro Amano, M.D. Vice President Senior Vice-Dean, Postgraduate School Professor and Director, Center of Postgraduate Medical Education
International University of Health and Welfare Honorary Director, Sanno Medical Center

Anatomical rib panel included
Allows direct visual confirmation of needle placement into the pleural cavity*
*Thoracentesis simulator only



DESCRIPTIONS

SPECIFICATIONS

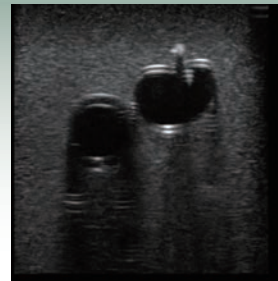
Size: [Main unit] W38 x D25 x H48 cm (W15 x D9.8 x H18.9 in)
[thoracentesis pad] W16 x D7 x H21 cm (W6.3 x D2.8 x H8.3 in)
[pericardiocentesis pad] W16 x D14 x H21 cm (W6.3 x D5.5 x H8.3 in)
Weight: [thoracentesis/pericardiocentesis simulator] 9.7 kg (21.3 lb) (including pad)
[thoracentesis simulator] 9.2 kg (20.2 lb) (including pad)
[pericardiocentesis simulator] 8.7 kg (19.1 lb) (including pad)
Material: Soft resin / Hard resin / Latex free

Set Includes

	MW17	MW4	MW4A	MW15
1 upper torso manikin	✓	✓		✓
1 thoracentesis pad (for mid-axially line access)	✓	✓	✓	
1 thoracentesis pad (for mid-scapular line access)	✓	✓	✓	
2 fitting strap for thoracentesis unit	✓	✓	✓	
1 pericardiocentesis pad	✓			✓
1 irrigation bottle	✓	✓		✓
2 connecting tube	✓			✓
1 water injection syringe 50mL	✓			✓
1 funnel	✓			✓
1 lung syringe 50mL	✓	✓	✓	
1 simulated lung tube	✓	✓	✓	
1 plastic jar (large)	✓	✓	✓	
1 plastic jar (small)	✓			✓
1 explanation model	✓	✓	✓	
1 storage case	✓	✓	✓	✓

CVC Insertion Simulator

Hands-on training for a variety of CVC insertion and management techniques



Item No.	Code	
M93UB	11347-300	CVC Insertion Simulator II - Landmark and ultrasound pads
M93U	11347-500	CVC Insertion Simulator II - Ultrasound pads
M93C	11347-510	CVC Insertion Simulator III - CVC placement pads

FEATURES

- | **01 Anatomically correct landmarks, including rib cage and vein bifurcations**
- | **02 Mechanical complications, including pneumothorax, mislodging and arterial puncture can be simulated**
- | **03 Train all steps for a successful CVC insertion from aseptic field preparation to final catheter placement confirmation**

SKILLS

3 insertion sites: subclavian vein approach / supraclavicular approach / internal jugular vein approach
Prevention of mechanical complications and CVC placement failure

Recommended devices:

- Central venous catheter kit
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Internal jugular vein / Common carotid artery / Subclavian vein / Subclavian artery / Superior vena cava

Possible complications:

Catheter tip malposition / Pneumothorax / Subclavian arterial puncture / Common carotid arterial puncture

DESCRIPTIONS

SPECIFICATIONS

Main unit: adult torso model
Size: W40 x D17 x H38 cm (W15.7 x D6.7 x H15 in)
Material: [Main unit] Soft resin / Latex free
[CVC catheter insertion pad] Hydrogel / Latex free

Caution: The CVC placement pad is made of material which will dry-out and deteriorate after being exposed to air for a longer time period. It is not suitable for long-term storage and should be used soon after opening the packaging.

Product Supervision:

Masahiro Tanabe, M.D., Ph.D., Professor Director General Medical Education Center Chiba University School of Medicine
Kinya Sando, M.D., Ph.D., Professor Director Department of Human Dietetics Graduate School of Human Science Osaka Shoin Women's University
Masanori Hoki, M.D., Ph.D., Professor Department of Human Dietetics Graduate School of Human Science Osaka Shoin Women's University
Joho Tokumine, M.D., Ph.D., Department of Anes-thesia, Kawatetsu Chiba Hospital

5 interchangeable pads to support different skill-level trainings:

1. Beginner level: anatomical understanding > transparent anatomical block / basic ultrasound training block "Real Vessel"
2. Intermediate level: localization of insertion site by palpation and observation > landmark pad / ultrasound pad
3. Advanced level: catheter placement > CVC placement pad



SET INCLUDES

All sets:
1 male upper torso manikin
1 transparent anatomical block
1 skin for cannulation training
1 introductory ultrasound training block "real vessels"
1 irrigation bottle
1 Syringe (50 mL)
1 Storage case
10 cotton swab for coloring (red / blue)

11347-300:
1 landmark puncture pad II
1 ultrasound puncture pad II
1 air bulb

11347-500:
2 ultrasound puncture pad II
1 air bulb

11347-510:
2 CVC catheter insertion pads
1 air bulb

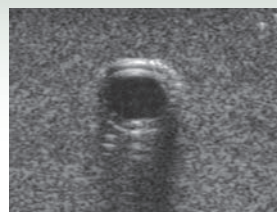
RELATED PRODUCTS

MW18 Ultrasound-Guided PICC Training Simulator



Ultrasound-Guided PICC Training Simulator

Ultrasound-guided PICC arms to promote infection prevention and increase medical safety standards



Item No.	Code
MW18	11398-000

FEATURES

- | **01** Human-like pads material for excellent image quality and visualization of the needle tip during the ultrasound-guided venous access
- | **02** Transparent anatomical structures of the ribs and right clavicle for visual confirmation of correct PICC placement
- | **03** Movable shoulder for easy patient positioning

SKILLS

Patient positioning
Selection and preparation of puncture site
Ultrasound-guided puncture procedure
Insertion of guidewire and dilator
Insertion of sheath
Insertion of catheter
Midline catheter insertion is also possible

Recommended devices:

- Peripherally inserted central catheter (PICC): 4 Fr, 50-60 cm (19.7-23.6 in)
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Cephalic vein / Basilic vein / Internal jugular vein / Subclavian vein / Ribs / Superior vena cava / Sternum

DESCRIPTIONS

SPECIFICATIONS

Main unit: male torso model with right arm
Size: W80 x D38 x H18 cm (W31.5 x D15 x H7.1 in) (in use)
Weight: 4.5 kg (9.9 lb) (including pad)
Material: Soft resin / Hard resin / Latex free

Caution: The PICC puncture pad is made of material which will dry out and deteriorate after being exposed to air for a longer time period. It is not suitable for long-term storage and should be used soon after opening the packing.

Product Supervision:

Joho Tokumine, M.D., Ph.D., Department of Anesthesiology, Kyorin University School of Medicine

Simulation of cannula malposition
Transparent anatomically correct vein bifurcation allows catheter misdirection



SET INCLUDES

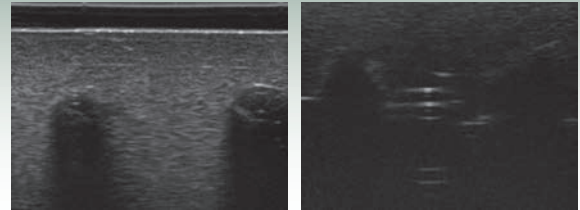
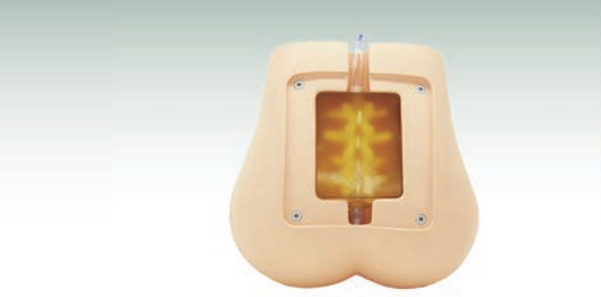
1 male upper torso with right arm	1 simulated blood bottle
2 PICC puncture pads	1 stand for simulated blood bottle
1 syringe, 50 mL	1 plastic jar
10 simulated blood stick (red)	1 storage case

RELATED PRODUCTS

M93B CVC Insertion Simulator II
M93B Introductory Ultrasound Training Block REAL VESSEL

Ultrasound Compatible Lumbar Puncture/ Epidural Simulator

Designed for ultrasound-guided lumbar and epidural puncture training



Item No.	Code
M43E	11348-500

FEATURES

- | **01** Landmarks required for lumbar puncture under ultrasound guidance are clearly detectable
- | **02** Epidural space for epidural puncture practice
- | **03** Facilitates puncture practice in both lateral and sitting positions

SKILLS

Ultrasound-guided lumbar puncture
Ultrasound-guided epidural anesthesia

Recommended tools:

- Epidural needle: 18 G
- Spinal needle: 21 G
- Convex transducer

ANATOMY / CASES / PATHOLOGIES

Lumbar vertebrae L2-L5, including spinous and transverse processes
Spinal canal / epidural space

Transparent puncture pad allows direct confirmation of needle trajectory



DESCRIPTIONS

SPECIFICATIONS

Main unit: adult lumbar/waist model
Size: approx. W33 x D21 x H30 cm
(W13 x D8.3 x H11.8 in)

Weight: 3.1 kg (6.9 lb)
Material: Soft resin / Polyurethane elastomer / Latex free

SET INCLUDES

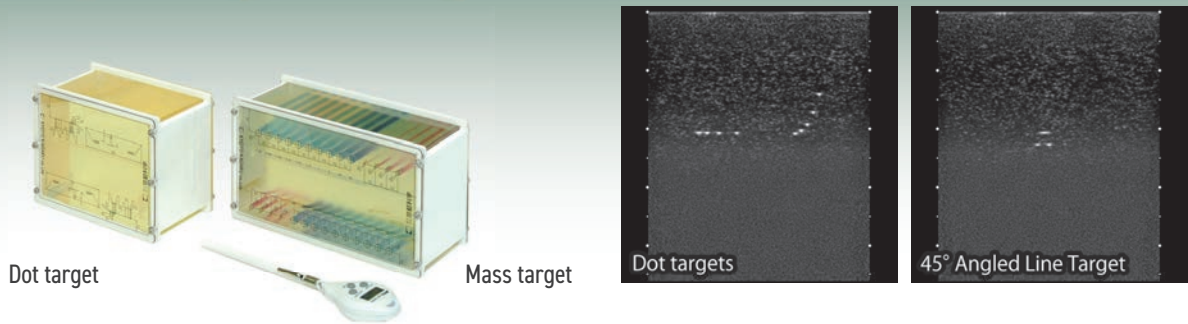
1 lower torso manikin	1 irrigation bag
1 ultrasound puncture pad	1 syringe
1 ultrasound skin cover	1 irrigation bottle
1 Support base (sitting/lateral position)	1 stand
	1 storage case

RELATED PRODUCTS

M43B Lumbar Puncture Simulator IIA
PH-51 Lumbar Spine Fluoroscopy Training Phantom

Breast Ultrasound QA Phantom

Designed for confirming assessment points for further examination in breast ultrasound



Item No.	Code
US-4	41902-000

FEATURES

- | **01** Two blocks with different attenuation rates and sound speeds, four types of internal targets for evaluating contrast and spatial resolution
- | **02** Targets, positioned at 10 mm and 20 mm depth, enable depth-dependent resolution evaluation
- | **03** Spatial resolution evaluation down to 0.5 mm

SKILLS

QC in diagnostic imaging under ultrasound
Regular transducer contrasts
Age-related issue assessment

Recommended devices:
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Mass-target block:
Grayscale target / Cyst target

Dot-target block:
Dot target / 45-degree diagonal line target

DESCRIPTIONS

SPECIFICATIONS

Mass-target block:
Size: approx. W18 x D7.5 x H11 cm
(W7.1 x D3 x H4.3 in)
Weight: approx. 1.3 kg (2.9 lb)
Material: Urethane elastomer /
Acryl / Nylon / Latex free
Attenuation coefficient: 0.59 dB/
cm/MHz (25°C)
Speed of sound: 1434 m/s (25°C)

Dot-target block:
Size: approx. W13.5 x D7.5 x H11
cm (W5.3 x D3 x H4.3 in)
Weight: approx. 1 kg (2.2 lb)
Material: Soft resin
Attenuation coefficient: 0.73 dB/
cm/MHz (25°C)
Speed of sound: 1442 m/s (25°C)

SET INCLUDES

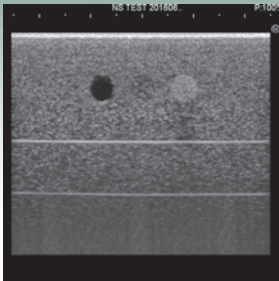
- 1 mass targets block
- 1 dot targets block
- 1 thermometer
- 1 storage case

RELATED PRODUCTS

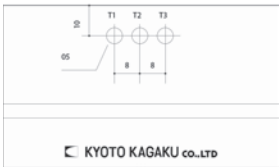
- US-4 Breast Ultrasound Phantom
- US-4B Small Parts Basic QA Phantom
- US-2 Ultrasound QA Phantom

Small Parts Basic QA Phantom

Designed for daily quality control of ultrasound images and monitoring age-related transducer issues



Item No.	Code
US-4B	41902-100



FEATURES

- | 01 Compact design enables image acquisition with a single scan, reducing check up time and simplifying the process
- | 02 Built-in wire ensures verticality, while a transducer-positioning stand enables in regular inspections consistent conditions
- | 03 The phantom material maintains stable properties with minimal aging, verified through five years of testing

SKILLS

Quality control of ultrasound diagnostic systems image quality and prevention of age-related transducer issues

Recommended devices:
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

Embedded targets:
Three grayscale targets placed at a depth of 10 mm (0.39 in)

KEY FEATURES

- | This ultrasound QA phantom is designed as a single block, with three types of gray scale targets
- | There is an opening in the middle of the phantom where a thermometer can be inserted to determine the temperature's impact on the imaging condition
- | Two horizontal guide wires are embedded into the phantom for position and stability confirmation

DESCRIPTIONS

SPECIFICATIONS

Size: approx. W103 x D50 x H80 (25°C)
mm (W4.1 x D2 x H3.1 in) Attenuation coefficient: 0.59dB/cm/MHz
Weight: approx. 0.3 kg (0.7 lb)
Material: Urethane elastomer / Density: 0.954 g/m3
Acryl / Nylon / Latex free Acoustic impedance: 1.37 MRayl
Speed of sound: 1434 m/s ±1m/s

Product Supervision:
The Japan Association of Breast and Thyroid Sonology (JABTS)

SET INCLUDES

- 1 mass targets block
- 1 thermometer

RELATED PRODUCTS

- US-2 Ultrasound QA Phantom
- US-4 Breast Ultrasound Phantom
- US-2 Ultrasound QA Phantom



Ultrasound QA Phantom N-365

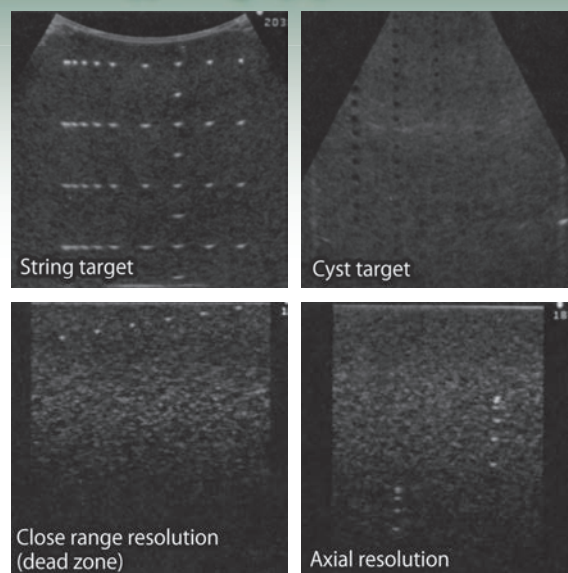
Designed for evaluating ultrasound system resolution and supporting equipment assessment and inspection



Item No.	Code
US-2	41338-010

FEATURES

- | 01 Proprietary elastomer material ensures speed of sound and acoustic attenuation close to human soft tissue
- | 02 B-mode ultrasound displays a fine background echotexture
- | 03 Durable, stable material guarantees long-term service and shelf life of equipment



SKILLS

Ultrasound diagnostic image quality control

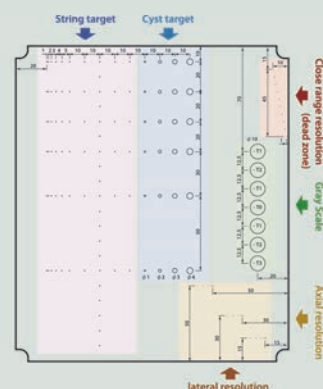
Recommended devices:

- Convex transducer
- Linear transducer
- Others

ANATOMY / CASES / PATHOLOGIES

Ultrasound diagnostic system evaluation:
String target / Cyst target / Near-field resolution (dead zone) /
Grayscale target / Axial resolution / Lateral resolution

High-precision targets embedded in the background



DESCRIPTIONS

SPECIFICATIONS

Size: W19 x D7 x H22 cm (W7.5 x D2.8 x H8.7 in)	Attenuation coefficient: 0.59dB/cm/MHz
Weight: approx. 3.6 kg (7.9 lb)	Speed of sound: 1432 m/s(25 degrees C)
Material: Urethane elastomer / Acryl / Nylon / Latex free	

Product Supervision:

Hiroshi Natori, M.D., Ph.D.
Professor, Sapporo Medical University School of Medicine

SET INCLUDES

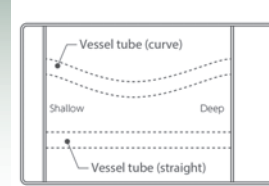
- 1 phantom
- 1 storage case

RELATED PRODUCTS

- US-4B Small Parts Basic QA Phantom
- US-4 Breast Ultrasound Phantom

Introductory Ultrasound Training Block REAL VESSEL

Designed for basic training in vascular access under ultrasound



Item No.	Code
M93B	11347-210

FEATURES

- | 01 Simulated two vessel variations: straight and curved
- | 02 Sloped vessel, shallow on one end, deep on the other, increases difficulty level
- | 03 Realistic repercussion of the vessels when puncturing

SKILLS

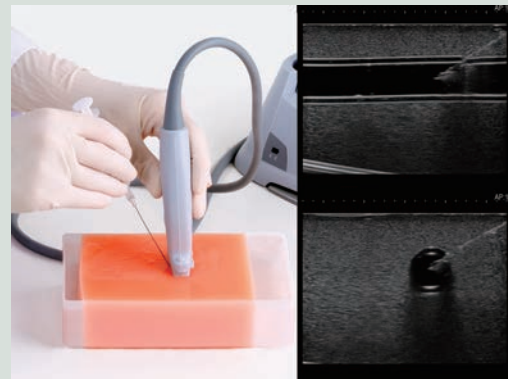
Accurate visualization of simulated vessels
Hand-eye coordination

Recommended devices:
- Linear transducer

ANATOMY / CASES / PATHOLOGIES

2 Vessels (straight/curved)

Suitable for learning basic ultrasound-guided puncture techniques



DESCRIPTIONS

SPECIFICATIONS

Size: W17 x D11 x H4 cm (W6.7 x D4.3 x H1.6 in)
Material: Hydrogel / Latex free
Weight: 0.5 kg (1.1 lb)

SET INCLUDES

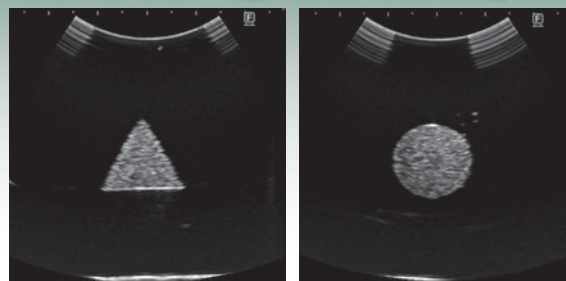
2 ultrasound-guided puncture training pads

RELATED PRODUCTS

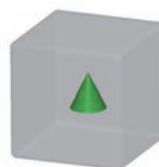
M93UB CVC Insertion Simulator II
MW18 Ultrasound-Guided PICC Training Simulator

Elementary Cubic Phantom BLACKCUBE

From 2D to 3D: an introductory phantom for ultrasound image understanding



Item No.	Code	
US-24	41955-000	Basic set
	41955-100	Full set



FEATURES

- | 01 Each cube contains one geometric shape (eight types in total), invisible from the outside
- | 02 Training workbook is included
- | 03 Facilitates acquisition of the essential interpretation skills for ultrasound scanning three-dimensional structures

SKILLS

Visualization and measurement of geometric shapes under ultrasound
 Conceptualization of three-dimensional structures based on different images from six angles
 Self-learning with the workbook

Recommended devices:

- Convex transducer

ANATOMY / CASES / PATHOLOGIES

List of included geometrical shapes:
 Sphere (large) / Sphere (small) / Double sphere / Ellipsoid /
 Cylinder / Cone / Triangular pyramid* / Star-shaped prism*

*Included in the full set only

DESCRIPTIONS

SPECIFICATIONS

Size: approx. W10 x D10 x H10 cm Material: Soft resin
 (W3.9 x D3.9 x H3.9 in)
 Weight: 1 kg (2.2 lb) each

Product Supervision:

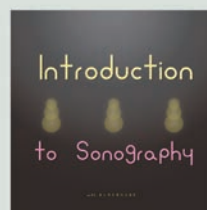
Tadashi Kobayashi, M.D. Ph.D Graduate School of Medicine Endowed Course Development of Community Healthcare

Note: Ultrasound system not included in either set

RELATED PRODUCTS

US-18 Fundamental Ultrasound Phantom

Booklet included
 'Introduction to sonography': a four-page introductory booklet on ultrasound basics
 BLACKCUBE Workbook: workbook-style self-learning guide with additional downloadable contents

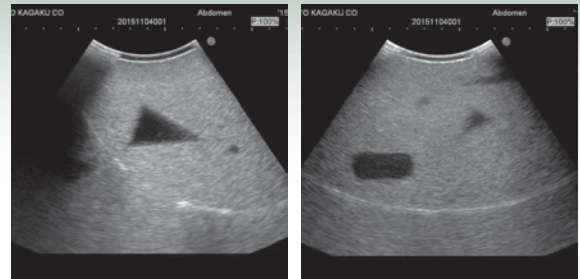


SET INCLUDES

	41955-000 Basic set	41955-100 Full set
Internal objects:		
- Sphere (large)	✓	✓
- Sphere (small)	✓	✓
- Double sphere	✓	✓
- Ellipsoid	✓	✓
- Cylinder	✓	✓
- Cone	✓	✓
- Triangular pyramid		✓
- Star-shaped prism		✓
1 Talcum powder	✓	✓
1 Storage case	✓	✓
1 Workbook	✓	✓
1 Quick Reference cards	✓	✓

Fundamental Ultrasound Phantom

Training phantom for basic ultrasound scanning, with embedded geometric shapes and other structures



Item No.	Code
US-18	41934-000

FEATURES

| **01** Facilitates training in visualisation, interpretation and localization of three-dimensional structures and measuring between the objects as well as their size under ultrasound

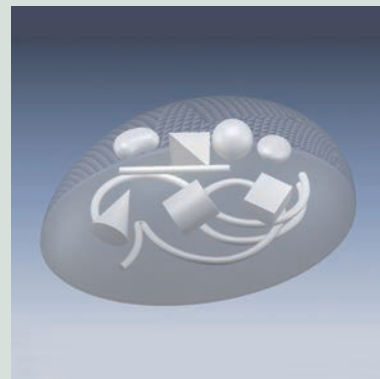
SKILLS

Target visualization under ultrasound
 Identification of target position, distance between internal objects, phantom surface
 Measurement of geometric shapes sizes

ANATOMY / CASES / PATHOLOGIES

List of included objects:
 Rectangular prism / Cylinder / Cone / Square pyramid /
 Ellipsoids / Sphere / Variations of strings

Ten types of internal objects



DESCRIPTIONS

SPECIFICATIONS

Size: W24 x D16 x H10 cm (W9.4 x D6.3 x H3.9 in)	Material: Polyurethane elastomer / Latex free
Weight: approx. 2 kg (4.4 lb)	

SET INCLUDES

1 Fundamental Ultrasound Phantom	1 Storage case
1 Target layout chart	
1 Talcum powder	

RELATED PRODUCTS

US-24 Elementary Cubic Phantom BLACKCUBE

Ultrasound Examination -Abdomen-

Compatible Products	Image	Product Information	Image	Product Information
US-1B Ultrasound Examination Training Phantom ABDFAN P.4		M98 Internal Organ Anatomical Model "ECHO-ZOU" 11224-000 REL		
US-1 Ultrasound Examination Training Phantom ECHOZY P.5		M98 Internal Organ Anatomical Model "ECHO-ZOU" 11224-000 REL		

Ultrasound Examination -POCUS-

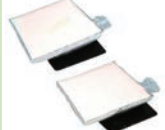
Compatible Products	Image	Product Information	Image	Product Information
MW63 Pressure Sores Simulator  P.20		Set of consumables for MW63/B 11446-010 Set includes: 11446-020 / 11446-030 / 11446-040 / 11446-050 CON		2 packs of simulated pus (100ml each) for MW63/B 11446-020 CON
		2 packs of simulated exudate (100ml each) for MW63/B 11446-030 CON		2 packs of simulated blood (100ml each) for MW63/B 11446-040 CON
		Simulated necrotic tissue (50g) for MW63/B 11446-050 CON		Set for necrotic tissue removal for MW63 11446-200 Set includes: 11446-210 / 11446-220 REP
		4 pads for necrotic tissue removal for MW63 11446-220 CON		Base for necrotic tissue removal for MW63 11446-210 REP
		Two types of echo pads (normal/edema) for MW63/B 11446-070 REP		

Ultrasound Examination -Others-

Compatible Products	Image	Product Information	Image	Product Information
US-11 Scrotal Ultrasound Phantom P.23		Normal scrotum unit for US-11 41911-010 REP		Pathological scrotum unit for US-11 41911-020 REP

Ultrasound-Guided Procedures

Compatible Products	Image	Product Information	Image	Product Information
US-25 Thyroid Biopsy Phantom P.26		1 pad (transparent) for US-25 41957-020 CON		1 pad (opaque) for US-25 41957-030 CON

Compatible Products	Image	Product Information	Image	Product Information
MW82 Femoral Arterial Puncture Trainer  P.27		Replacement skin for MW82 11486-030 CON		Replacement artery tube for MW82 (a set of 4) 11486-010 CON
		Replacement vein tube for MW82 (a set of 4) 11486-020 CON		Cotton swab for coloring (Red) 11388-400 CON
M99 Arterial Puncture Training Wrist and Ultrasound-Guided Arterial Puncture Training Pad  P.28		Replacement skin for M99 (set of outer & inner parts) Light tone 11351-010 Note: Not compatible with ultrasound. CON		Replacement artery tube for M99 (a set of 4) 11351-040 CON
		Replacement silicon tape for M99 (a set of 4) 11351-030 CON		Cotton swab for coloring (Red) 11388-400 CON
		Replacement ultrasound-guided arterial puncture pad for M99 (2 sets of inner & outer) 11351-110 OPT		Replacement ultrasound-guided pad for M99 (2 inner parts) 11351-120 CON
		Replacement ultrasound-guided skin for M99 (2 outer parts) 11351-130 CON		
MW4/15/17 Ultrasound-Guided Thoracentesis/Pericardiocentesis Simulator  P.29		Mid-axially unit puncture pad MW4/MW4A/MW17 (pair) 11383-010 CON		Mid-scapular unit puncture pad MW4/MW4A/MW17 (pair) 11383-020 CON
		Replacement lung for MW4/MW4A/MW17 (a pair) 11383-030 CON		Pericardiocentesis pad for MW15/MW17 (a pair) 11394-010 CON
M93UB/U/C CVC Insertion Simulator  P.30		Ultrasound puncture pads for M93UB/M93U (a pair) 11347-170 Enables training in ultrasound-guided puncture training. CON		Transparent anatomical block & skin for M93UB/C/U 11347-190 Provides a visual understanding of anatomy, including veins, arteries, bones, and lungs. REP
		Landmark puncture pad for M93UB (a pair) 11347-280 Enables landmark-guided catheterization training. CON		CVC placement pads for M93C (a pair) 11347-240 Enables training in catheter insertion and removal. CON

Compatible Products	Image	Product Information	Image	Product Information
M93UB/U/C CVC Insertion Simulator 		Introductory Ultrasound Block REAL VESSEL (a pair) M93B 11347-210 Ideal for basic ultrasound-guided puncture training. 		Cotton swab for coloring (Blue) 11402-010 
		Cotton swab for coloring (Red) 11388-400 		Pulsation unit for CVC placement pad (M93UB/U) 11347-250 Required for simulating arterial pulsation during landmark-guided catheterization with the CVC Catheter Insertion Pad. 
		Pulsation unit for CVC placement pad (M93C) 11347-260 Required to simulate arterial pulsation when using the CVC Catheter Insertion Pad for landmark-guided catheterization. 		Air bulb for landmark puncture pad (M93B,UB,C) 11347-270 
		Irrigation bottle for ultrasound puncture pad 11347-320 		
MW18 Ultrasound-Guided PICC Training Simulator 		PICC puncture pads for MW18 (a pair) 11398-010 		Introductory Ultrasound Block REAL VESSEL (a pair) M93B 11347-210 Ideal for basic ultrasound-guided puncture training. 
		Bottle set for simulated blood for MW18 11398-020 		
M43E Ultrasound Compatible Lumbar Puncture/ Epidural Simulator 		Ultrasound lumbar puncture/epidural block for M43E 11348-190 		Ultrasound lumbar region skin cover for M43E Light tone 11348-230 
		Supporting stand for M43B/B-B 11348-160 		

Symbols and icons



Consumables



Optional Accessories



Replacement Parts



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