

SINCE
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 **KYOTO KAGAKU**

PRODUCT CATALOG

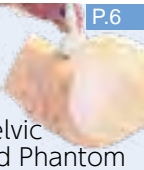
Simulators, Ultrasound Phantoms and Anatomical Models

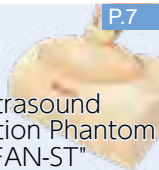
2019-

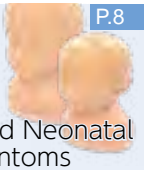
PRODUCT CATALOG 2019-

PRODUCT CATALOG 2019- CONTENTS


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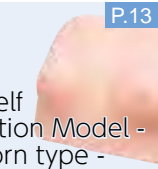
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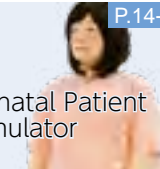
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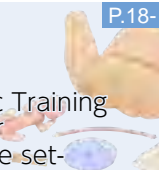
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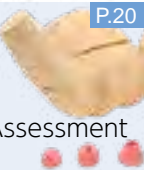
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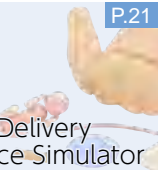
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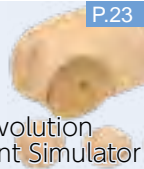
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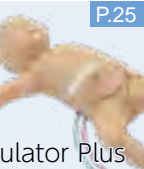
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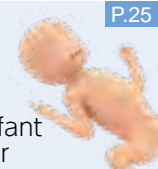
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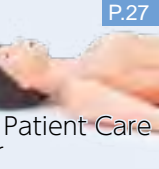
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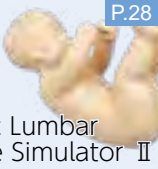
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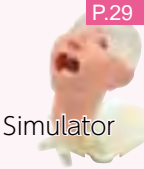
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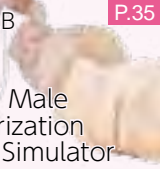
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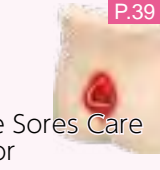
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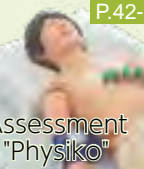
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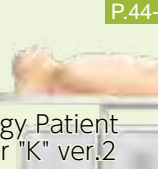
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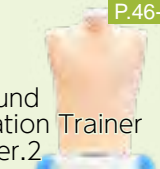
Physical Examination

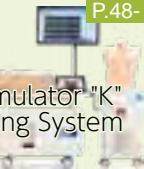
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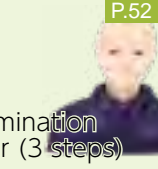
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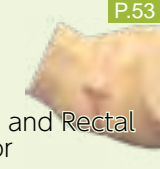
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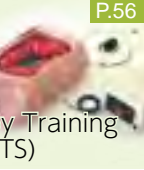
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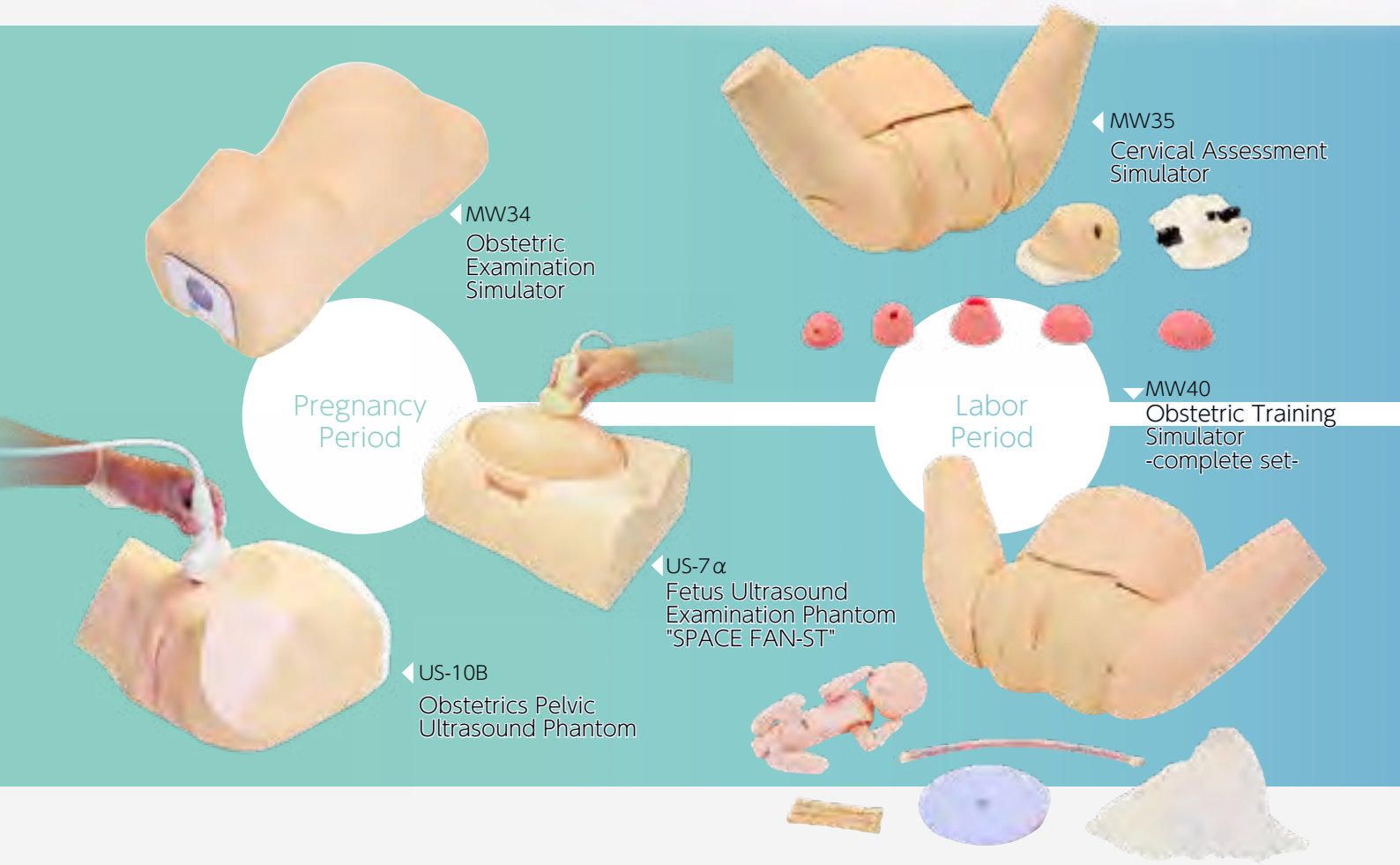
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- P.74 Laparoscopic Suture Simulator -Assessment System- Compact	US-3 P.75 Abdominal Intraoperative & Laparoscopic Ultrasound Phantom "IOUSFAN"	M57B P.76 Suture Evaluation Simulator	M57C2 P.76 Laparoscopic Suture Evaluation Simulator	M83 P.77 Suture Practice Trainers -Full set-	
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A Range of Innovative Training Simulators



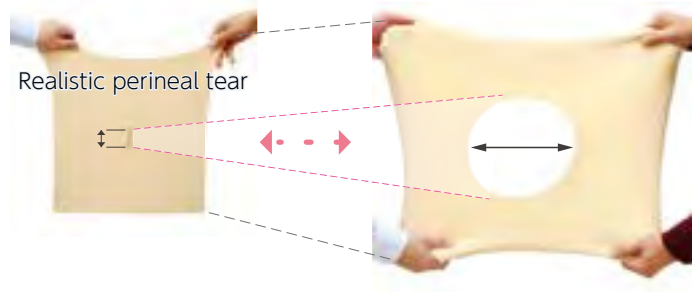
Kyoto
Maternity
Series

Innovative
Features

1

Genital area made of innovative material that excels in elasticity, durability and resilience while offering repeated true-to-life hands-on training in pelvic examination and birthing

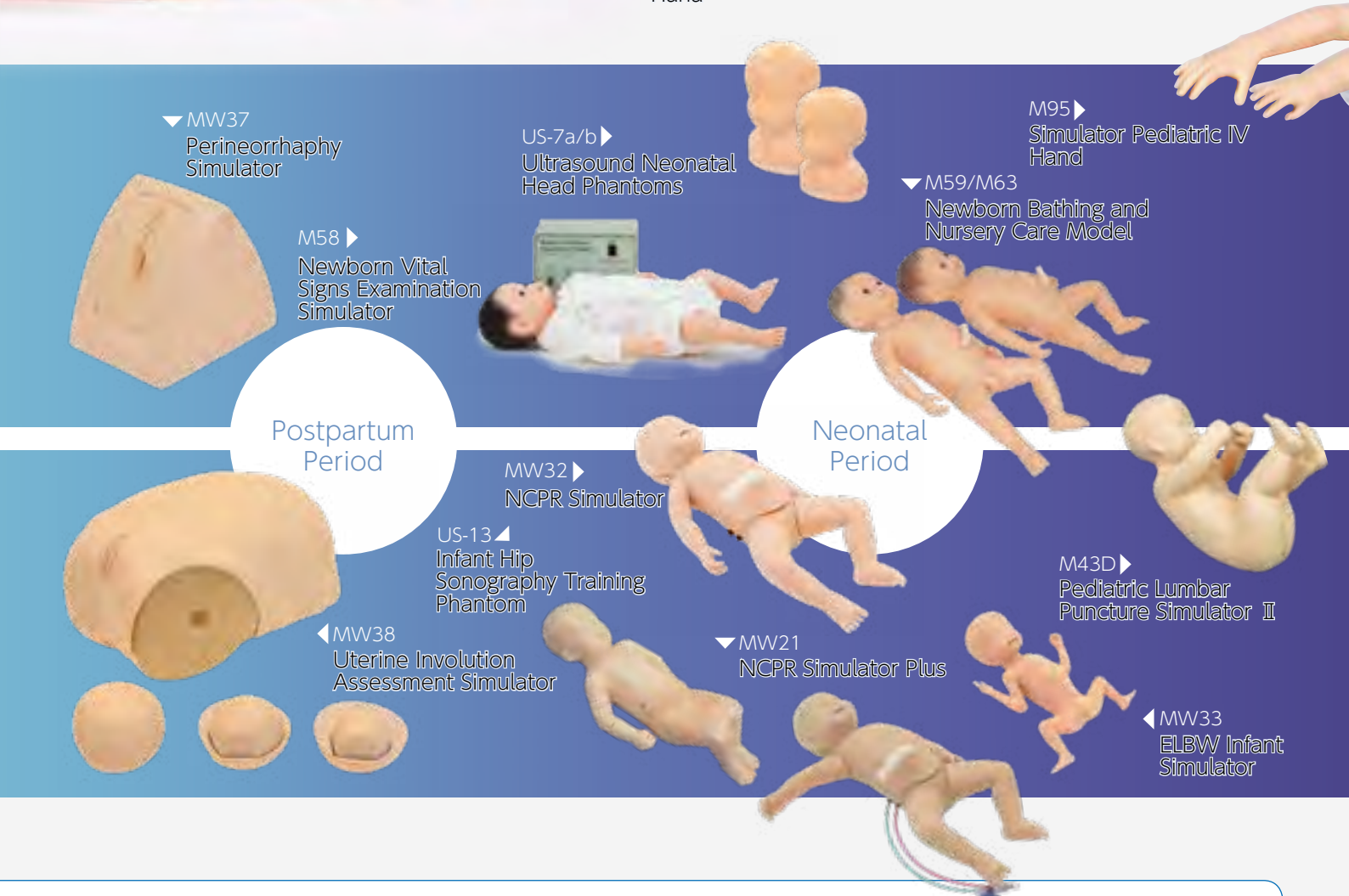
*Resilient perineal area allows for repetitive use, saving cost for training courses.



from Pregnancy Period to Neonatal Period



◀ MW48
Full Perinatal Patient
Care Simulator
"Hana"



2

Smooth delivery of the baby and placenta

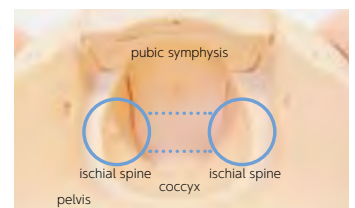
1. Optimal lubricant
2. Genital area that excels in elasticity, durability and resilience
3. Vaginal canal that matches the size of the neonate
4. Holding handle to stabilize the maternal body



3

Landmarks on the pelvis that facilitate integration of anatomical knowledge and procedural skills

Anatomically correct vaginal canal, ischial spines, pubic symphysis and coccyx allow for observation and palpation of the landmarks related to fetal positions, promoting anatomical understanding to acquire midwifery skills.



Accurate anatomy

US-10 US-10a US-10b



NEW

Female Pelvic Ultrasound Phantom

Practice both transvaginal and transabdominal ultrasound procedures in one

New unit released includes normal, pathological and ectopic pregnancies.

Product Supervision

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



FEATURES

- 1 | Compatible with actual ultrasound probe
- 2 | Three types of interchangeable phantom inserts with different pathologies
- 3 | Realistic view of female external genital
- 4 | Excellent ultrasound image quality

SKILLS

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

ANATOMY Three variations of training sets. Select the one which best meet your requirements.

US-10B: for Obstetrics	US-10A: Full set	US-10: for Gynecology
<p>Normal pregnancy unit (7 weeks)</p>	<p>Ectopic pregnancy unit</p>	<p>Pathological unit</p>

DESCRIPTIONS

SPECIFICATIONS

Torso size: W34 x D33 x H24cm
 W13.5 x D13 x H9.5 inch

weight : 7.2kg / 15.9 lbs

SET INCLUDES

US-10
 Female Pelvic Ultrasound Phantom

- 1 | lower torso manikin
- 1 | ultrasound pathology unit
- 1 | ultrasound ectopic pregnancy unit
- 1 | storage case
- 1 | instruction manual

US-10A
 Female Pelvic Ultrasound Phantom

- 1 | lower torso manikin
- 1 | ultrasound pathology unit
- 1 | ultrasound first trimester pregnancy unit
- 1 | ultrasound ectopic pregnancy unit
- 2 | storage case
- 1 | instruction manual

MATERIALS

Soft resin, Polyurethane elastomer
 Latex free

US-10B
 Obstetrics Pelvic Ultrasound Phantom

- 1 | lower torso manikin
- 1 | ultrasound first trimester pregnancy unit
- 1 | ultrasound ectopic pregnancy unit
- 1 | storage case
- 1 | instruction manual

REPLACEMENT PARTS

- 41909-030 | ultrasound pathology unit
- 41909-040 | ultrasound ectopic pregnancy unit
- 41909-050 | ultrasound first trimester pregnancy unit
- 41909-060 | skin for US-10 / 10A / 10B

RECOMMENDED DEVICES

-
 * Ultrasound scanner is not included.



US-7 α 

Fetus Ultrasound Examination Phantom "SPACE FAN-ST"

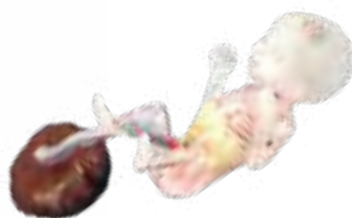
Staple phantom for hands-on practice in second trimester screening

Includes a 23-week fetus with detailed anatomy associated with assessment of gestational age in second trimester

Product Supervision

Kiyoko Kabeyama RN, RM, PhD
Professor Midwifery & Women's Health, School of Human Health Science, Graduate School of Medicine, Kyoto University

Haruto Egawa, PhD
National Hospital Organization Kyoto Medical Center
Department of Obstetrics, Head Physician or Medical Director



Fetus Demonstration Model

Included life-size fetus model for demonstration and visual understanding.



Photos courtesy of Adventist University of Health Sciences

Heart with four chambers



UV



FEATURES

- 1 | The oval shape phantom abdomen can be set into four different positions.
- 2 | The fetus includes full skeletal structures and key organs.
- 3 | Includes an educational DVD and a fetus demonstration model for comprehensive learning.
- 4 | Includes a 23-week fetus.

SKILLS

- | Fetal size assessment: BPD, AD, AC and FL
- | Measurement of amniotic fluid volume
- | Determination of fetus presentation (cephalic or breech)
- | Assessment of each body part
 - Head: skull and brain
 - Spine and limbs
 - Cardiac chambers, blood vessels and lungs
- | Assessment of umbilical cord and placenta position
- | Determination of sex (This phantom represents a male fetus.)

ANATOMY

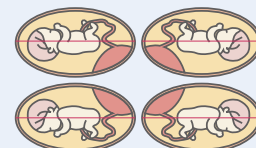
Uterus

- | amniotic fluid
- | placenta
- | umbilical cord

Fetus

- | skeletal structure
- | brain with septum lucidum
- | lateral ventricles and cerebellum
- | heart with four chambers
- | lungs
- | spleen
- | bladder

- | stomach
- | liver
- | kidneys
- | aorta
- | umbilical vein
- | umbilical artery
- | external genitalia



The oval shape phantom abdomen can be set in four different positions.

DESCRIPTIONS

SPECIFICATIONS

Size: W40 x D29 x H22 cm
W16 x D11.6 x H8.8 inch

Weight: 6kg / 13 lbs

MATERIALS

Soft resin, Polyurethane elastomer
Latex free

RECOMMENDED DEVICES

-

SET INCLUDES

- 1 | mother body torso
- 1 | ultrasound pregnant uterus phantom
- 1 | fetus demonstration model
- 1 | storage case
- 1 | tutorial manual (DVD)

REPLACEMENT PARTS

-

* Ultrasound scanner is not included.

US-14a



NEW

Ultrasound Neonatal Head Phantom (Normal Type)

World's first ultrasound neonatal head phantom with key anatomies

Product Supervision

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



FEATURES

Cranial or head ultrasound is one of the most difficult scanning skills, and trainees have few opportunities for training. This head model features an accurate depiction of a newborn's cerebral anatomy, and facilitates a realistic user experience with its life-like soft touch.

SKILLS

Scanning of brain anatomy in sagittal (angled parasagittal), coronal and transverse planes via any fontanel

Palpation of anterior, posterior and mastoid fontanels

ANATOMY

skull	cerebrum	third ventricle
anterior fontanel	cerebellum	fourth ventricle
posterior fontanel	brain-stem	septum lucidum
mastoid fontanels	lateral ventricle	

DESCRIPTIONS

SPECIFICATIONS

Size: W13 x D13 x H20 cm
W5.1 x D5.1 x H6.7 inch

Weight: 1.5kg / 3.3lbs

SET INCLUDES

- 1 ultrasound phantom
- 1 pillow
- 1 storage case
- 1 instruction manual

MATERIALS

Polyurethane elastomer
Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

* Ultrasound scanner is not included.

US-14b



NEW

Ultrasound Neonatal Head Phantom (Abnormal Type)

World's first ultrasound neonatal head phantom with hydrocephalus

Product Supervision

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



FEATURES

This head phantom is designed to demonstrate Hydrocephalus. The shape of the skull is altered due to intracranial pressure.

SKILLS

Scanning of brain anatomy in sagittal (angled parasagittal), coronal and transverse planes via any fontanel

Palpation of fontanels

ANATOMY

skull
anterior fontanel
posterior fontanel
hypertrophied lateral ventricle

DESCRIPTIONS

SPECIFICATIONS

Size: W13 x D14 x H20 cm
W5.1 x D5.1 x H6.7 inch

Weight: 1.5kg / 3.3lbs

SET INCLUDES

- 1 ultrasound phantom
- 1 pillow
- 1 storage case
- 1 instruction manual

MATERIALS

Polyurethane elastomer
Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

* Ultrasound scanner is not included.



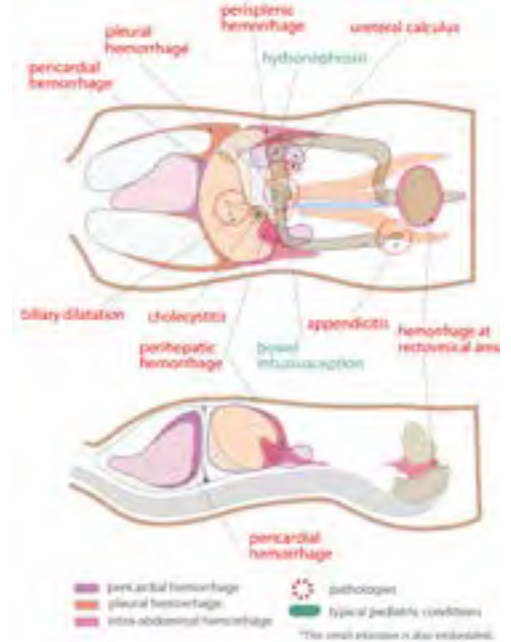
Pediatric FAST/Acute Abdomen Phantom

Ultrasound training for pediatric FAST procedures

This world's first pediatric ultrasound torso phantom provides opportunities of hands-on training in ultrasound examination of two year-old patient

Product Supervision

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



FEATURES

- 1 | Thoracoabdominal organs, bone structure and free-fluid for practicing FAST examination procedures
- 2 | Commonly seen pathologies in pediatrics
- 3 | Acquire fundamental pediatric abdominal ultrasound skills, as well as FAST/Acute sonography skills

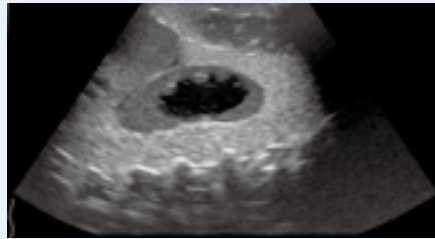
SKILLS

- FAST procedures:
Internal hemorrhage at perihepatic, perisplenic, pelvis, and pericardium area
- Sonography for acute pediatric patient:
Bowel intussusception, appendicitis and biliary dilatation

IMAGES



Pleural hemorrhage



Hydronephrosis



Appendicitis

DESCRIPTIONS

SPECIFICATIONS

Size: W41 x D15 x H15 cm Weight: 6.5kg / 14.3lbs
 W16 x D6 x H6 inch

SET INCLUDES

- 1 | ultrasound phantom
- 1 | storage case
- 1 | tutorial manual (DVD)

MATERIALS

Polyurethane elastomer
 Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

* Ultrasound scanner is not included.



US-13



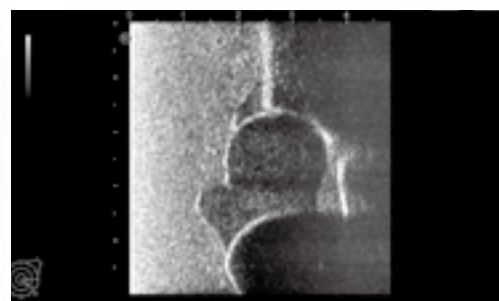
Infant Hip Sonography Training Phantom

World's first infant hip sonography phantom Best tool to teach Graf's method

Product Supervision

Univ. Prof., h.c., Reinhard Graf, M.D.

This phantom expands training opportunities for pediatricians, radiologists and orthopedists. Before working on real infants, trainees can repetitively practice on this phantom to become familiar with the examination procedures and key points. Using real ultrasound devices, trainees can learn key ultrasound landmarks to identify standard plane for Graf's classification. This is a foundation to acquire skills in handling and positioning of the baby as well as correct positioning of the transducer.



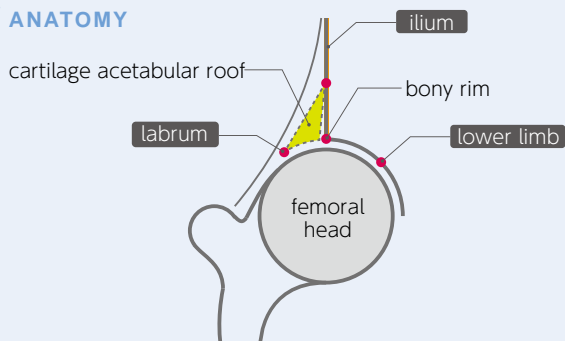
FEATURES

- 1 | The market's only training phantom for hip sonography on a full body manikin of 6-week-old infant.
- 2 | Bilateral hips for examination.
- 3 | Facilitate anatomical understanding.
- 4 | Movable arms to practice supporting and repositioning of the infant.

SKILLS

- Setting and preparation for hip sonography
- Changing the position of the infant
- Communication and interaction with infant's guardian
- Correct use and positioning of the transducer
- Recognition of landmarks for hip sonography
- Visualization of standard, anterior and posterior planes
- Interpretation and morphological classification of the sonogram

ANATOMY



KEY LANDMARKS

- chondro-osseous junction
- femoral head
- synovial membrane
- joint capsule
- acetabular labrum
- cartilaginous portion of the acetabular roof
- bony promontory of the superior bony acetabular rim
- lower margin of the ilium
- standard plane

DESCRIPTIONS

SPECIFICATIONS

Size: W55 x D25 x H13 cm Weight: 3kg / 6.6lbs
W21.6 x D9.8 x H5.1 inch

SET INCLUDES

- 1 | ultrasound infant phantom
- 1 | storage case
- 1 | instruction manual

MATERIALS

Polyurethane elastomer
Latex free

OPTIONAL PARTS

-

RECOMMENDED DEVICES

-

*Supporting cushion is not included.

*Ultrasound scanner is not included.





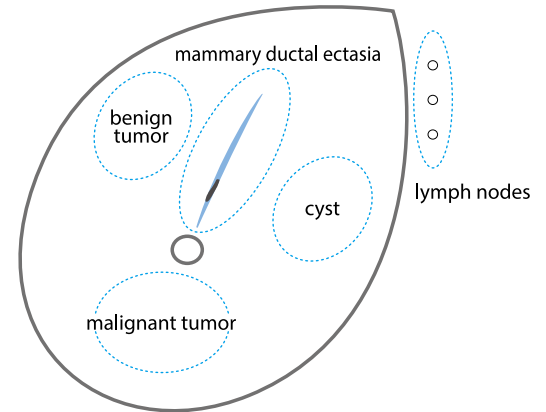
Breast Ultrasound Examination Phantom "BREAST FAN"

Unique phantom for basic breast ultrasound examination

Simulated targets with different echogenicities are embedded in the phantom's mammary gland

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



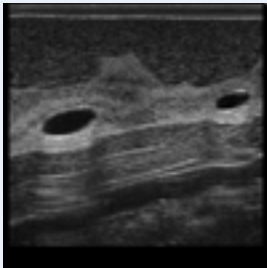
FEATURES

- 1 | State-of-the-art breast ultrasound phantom with anatomy
- 2 | Skills required for ultrasound breast screening can be greatly advanced with practice
- 3 | Excellent ultrasound image quality

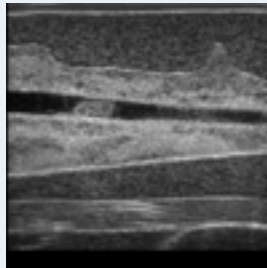
SKILLS

- | Systematic full breast scanning
- | Visualization of key anatomical landmarks
- | Tracking of galactophore
- | Visualization and differentiation of typical pathologies
- | Localization and measurement of cysts and tumor

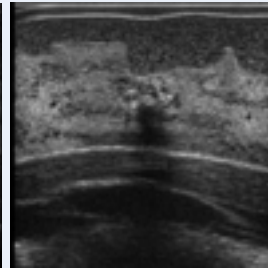
IMAGES



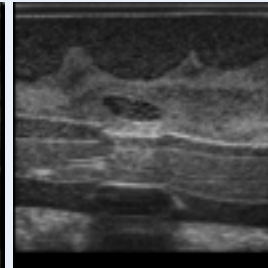
Cyst



Mammary ductal ectasia



Malignant tumor



Benign tumor

ANATOMY

- | subcutaneous adipose
- | mammary gland
- | galactophore
- | cooper's ligament
- | retromammary adipose
- | costae
- | clavicle
- | pectoralis major
- | lung
- | lymph nodes at axilla

DESCRIPTIONS

SPECIFICATIONS

Size: W33 x D48 x H12 cm Weight: 7kg / 15.4lbs
 W7.6 x 8.8 x 2.8 inch

SET INCLUDES

- 1 | breast phantom
- 1 | storage case
- 1 | tutorial manual (DVD)
- 1 | instruction manual

MATERIALS

Polyurethane elastomer
 Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

* Ultrasound scanner is not included.

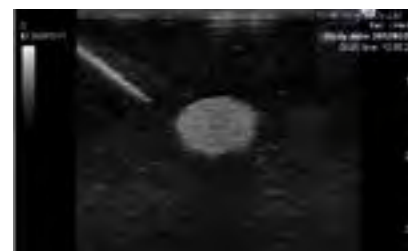
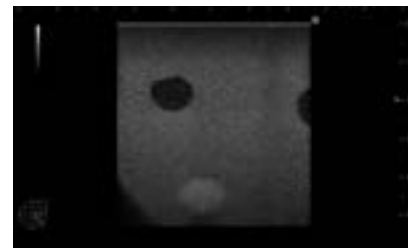




Ultrasound-Guided Breast Biopsy Phantom

Enhance confidence in performing safe and accurate breast biopsies

Combine two types of breast phantoms for step-by-step development of skills in needle biopsy



FEATURES

- 1 | Fine Needle Aspiration Biopsy (FNAB), Core Needle Biopsy (CNB) and Mammotome biopsy can be performed under ultrasound guidance.
- 2 | Realistic breast tissues that simulate the softness and resistance of the mammary gland.
- 3 | Targets are colored to confirm successful sampling.
- 4 | Targets are embedded in three levels for training in needle access in different angles and depth.
- 5 | Transparent and opaque phantoms provide level variations.
- 6 | Inexpensive and disposable for multiple attempts.

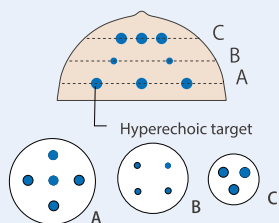
SKILLS

- | Hand-eye coordination in ultrasound biopsy
- | Localization of targets under ultrasound guidance
- | Sampling of target

KEY FEATURES

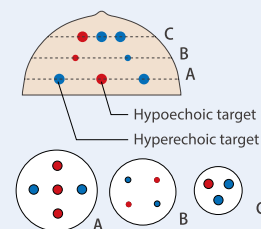
Basic (Transparent)

Hand-eye coordination



Advanced (Opaque)

Acquisition of skills in safe and reliable needle biopsy



DESCRIPTIONS

SPECIFICATIONS

Size: 16 dia. x H8 cm / 6.3 dia. x H3.2 inch Weight: 700g / 1.5 lbs

SET VARIATIONS

Duo set : 11387-000	transparent + opaque type
Transparent set : 11387-100	1 pair of transparent type
Opaque set : 11387-200	1 pair of opaque type

MATERIALS

Hydrogel
Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

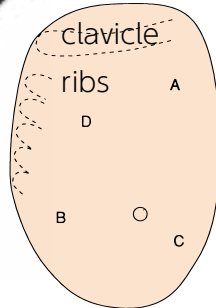
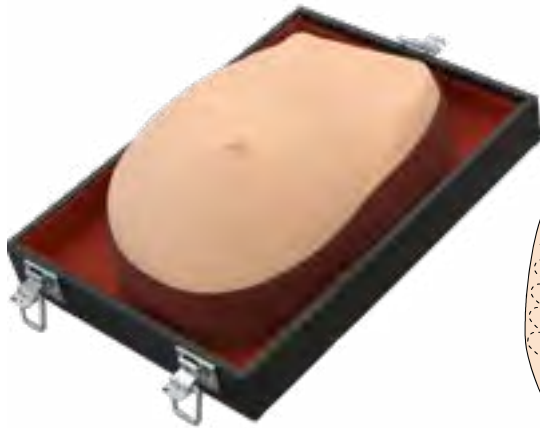
* Ultrasound scanner is not included.



M44



Visual-Tactile Breast Examination Simulator



A compact and realistic breast examination trainer

An excellent training and demonstration tool in breast lumps palpation both in educational and clinical setting

Utility model (Japan): No.1790498

Product Supervision

Tsuneaki Senoh, Prof.,
Kurashiki Medical Center

FEATURES

- 1 | Four breast lumps (tumor with dimple, tumor with skin depression, fibroadenoma and mastopathy)
- 2 | Bony landmarks for palpation: clavicle and ribs
- 3 | Soft and life-like texture

SKILLS

- | Tactile breast examination
- | Breast self-examination

PATHOLOGIES

(A) Skin Dimpling (Tumor):

Hard. Uneven surface. Partially unclear boundary

(B) Pitting (Tumor):

Hard. Uneven surface. Partially unclear boundary.

(C) Fibroadenoma:

Spherical. Smooth surface. Movable. Clear boundary.

(D) Mastopathy:

Elastic. Smooth surface. Unclear boundary.

DESCRIPTIONS

MATERIALS

Latex free
Soft resin

REPLACEMENT PARTS

-

SPECIFICATIONS

Size: W20 x D28 x H15 cm / W7.9 x D11 x H6 inch

SET INCLUDES

- 1 breast model (attached to the case)
- 1 talcum powder
- 1 storage case
- 1 instruction manual

M71



Breast Self Examination Model - body-worn type -



Breast examination trainer for self examination

Practice to detect and differentiate 6 different lumps through visual-tactile examination.

Utility model (Japan): No.1790498

Product Supervision

Tsuneaki Senoh, Prof.,
Kurashiki Medical Center

FEATURES

- 1 | Six signs of breast tumors
- 2 | An ideal tool for breast self-examination education.
- 3 | Realistic size, appearance and texture.

SKILLS

- | Tactile breast examination
- | Breast self-examination

DESCRIPTIONS

MATERIALS

Soft resin
Latex free

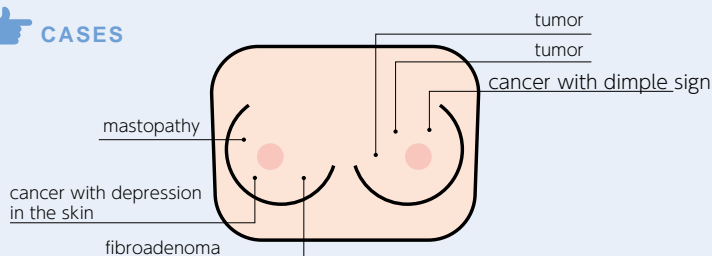
REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

CASES



SPECIFICATIONS

Size: W28 x D21 x H8 cm / W11 x D8.2 x H3.1 inch

SET INCLUDES

- 1 breast model with the strap belts
- 1 storage case

MW48

NEW

Full Perinatal Patient Care Simulator "Hana"

Be a part of Hana's journey as a new mother

Training manikin which covers from gestational to post-natal periods
Let us help you take your first step in perinatal care!



FEATURES

- 1 | Interchangeable abdomen to simulate perinatal examination, ultrasound examination at 23-weeks-fetus, cervical examination, labor, perineal tear and puerperal.

POINTS



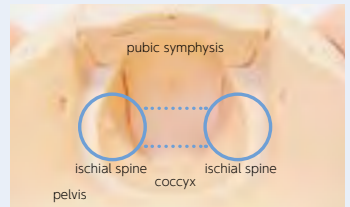
One-touch interchangeable parts



Compatible with birthing chairs



Durable yet realistically elastic



Accurate anatomy

SKILLS

- Nasogastric tube feeding
- Airway management, Intubation assistance
- Oral and denture care
- Oxygen mask
- Stomach pumping
- Suction
- Intravenous injections and cannulation (Left median vein)
- Cannula care (Left dorsal vein)
- Urinary catheterization
- Genital care
- Check procedures in case of amniorrhexis, bleeding and lochia
- Optional Add-ons
 - IM injections (upper arm)
 - SC injections (upper arm)
- Normal breast and nipple assessment
- Chest compressions
- Epidural placement
- IV route care (dorsal vein of left hand)

Perinatal examination

During pregnancy

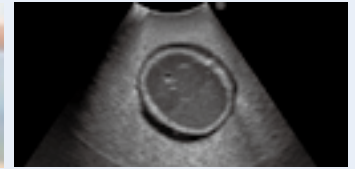
Perinatal examination

- | Palpation (e.g. using Leopold's maneuvers, cephalopelvic disproportion assessment)
- | Repositionable fetus
- | Auscultation of fetal sounds, with adjustable heart rates from 60 to 180
- | Measurable abdomen girth, fundal height and external pelvimetry



Ultrasound examination

- | Screening of 23 weeks fetus
- | Fetal size assessment using BPD, AC, FL, and so on
- | Measurement of amniotic fluid volume
- | Determination of fetus presentation



Childbirth

Cervical examination

- | 5 types of cervical dilation models
- | Determination of 'bishop score (cervix score)
- | Check fetal head position



During labor

- | Various positions: Supine, lateral, all-fours
- | Perineal protection
- | Cephalic and breech presentations
- | Obstetric forceps delivery and vacuum extraction delivery
- | Tying and cutting of the umbilical cord
- | Delivery of the placenta
- | Inspection of the amniotic sac
- | Insertion of urinary catheter



Perineal tear

- | Perineorrhaphy:
 - single interrupted suture
 - vertical mattress suture
- | Repetitive suture practice for first degree perineal tear



Puerperal

Puerperal assessment

- | Assessment uterine involution in early puerperium: 4 types of variations
- | Measurement and palpation of uterine fundus
- | Perineal cleaning and assessment
- | Postpartum massage
- | Assessment of anal prolapse



DESCRIPTIONS

SPECIFICATIONS

Size: 164 cm/ 63 inch Weight: 20 kg / 2.2 lbs

SET INCLUDES

1 manikin	1 injection pad (median vein)
1 wig	1 irrigation bag
1 face mask for Konoha/Hana	1 drainage pump /drainage hose
1 denture	1 lubricant for training models
1 female genitalia for Konoha	1 talcum powder
1 maternity clothes	1 instruction manual
1 towel	

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11229-050	lubricant for training models
11251-030	replacement shoulder IM pads
11416-040	velamen sheets
11416-030	10 umbilical codes for omphalotomy
11417-010	genitalia inserts
11415-020	lubricant for MW35/36/40

RECOMMENDED DEVICES

11406-040	wig
11415-030	genitalia unit
11415-010	cervical dilation inserts
11416-020	placenta
11406-050	printer

MW34



NEW

Obstetric Examination Simulator

Simulate prenatal checkups using our 39 to 40 week pregnancy simulator
Palpation, auscultation, and measurement all in one simulator



FEATURES

- 1 | Soft, durable and realistic senses of touch
- 2 | Various fetal positions and orientations by rotating the fetal unit
- 3 | Recorded and edited actual fetal heart sounds

LANDMARKS

- | pubic symphysis
- | navel
- | xiphoid process
- | iliac crest
- | great trochanters

KEY FEATURES

Auscultation



Selection of sounds can be controlled using a remote control for convenient and fast-paced trainings. Actual fetal heart sound recordings can be heard with a stethoscope or projected for group-based sessions.

Five sound variations:

- Stethoscope sounds
 - Fetal heart sounds
- Doppler sounds
 - Fetal heart sounds
 - Umbilical blood flow
 - Umbilical blood flow with fetal heart sounds combined (posterior and anterior)

*Doppler sounds are to be heard through the external speaker.

Controllable parameters

- Control of fetal heart rate (60-180)
- Switch between internal and external speakers

DESCRIPTIONS

SPECIFICATIONS

Size: W30 x D 60 x H30 cm/ W11.8 x D23.6 x H11.8 inch Weight: 11.2 kg / 24.7 lbs

SET INCLUDES

- 1 pregnancy torso
- 1 AC adaptor
- 1 remote control
- 1 talcum powder
- 1 instruction manual

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11414-010 skin cover for MW34

RECOMMENDED DEVICES

-



KEY FEATURES

Palpation

Palpation an anatomically correct pelvic and fetal landmarks
 Innovative tissue-like material!

■ Leopold's maneuvers

| Palpate parts of the fetus, such as the head, buttocks and trunk using the first to fourth maneuvers.

| Determine fetal position and orientation, as well as degrees of fetal descent.

First maneuver

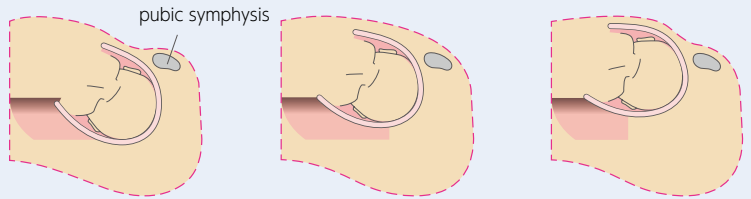


Fourth maneuver



■ Cephalopelvic disproportion assessment

Practice multiple CPD assessment scenarios. Height of the fetal head against the pubic symphysis can be changed by rotating the fetal unit.



Measurements

Measure and estimate fetal weight, development and amniotic fluid volume.

Maternal abdominal girth



Fundal height



A variety of external pelvimetries



Distantia spinarum



Distania cristarum



Distania trochanterica



External oblique diameter

A83A

Pregnant Uterus Model

This model replicates the anatomy of a maternal body at the final stage of pregnancy. The fetus can be removed out of the body.



A89

Fetal Development Model Set

This set of embryo models demonstrates regular fetal development in sequence from the 9th to 40th weeks of pregnancy.



MW40



NEW

Obstetric Training Simulator -complete set-

**Comprehensive maternal body set for skills training
in vaginal examinations during labor and delivery**



FEATURES

- 1 | The external genitalia is made of innovative material that excels in elasticity durability resilience for effective and repetitive training.

SKILLS

- | Cervical examination
- | Delivery assistance
- | Perineorrhaphy (perineal repair)

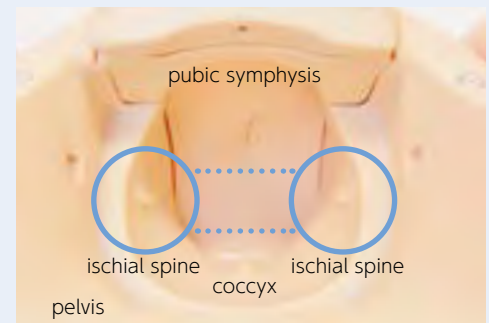
KEY FEATURES

The external genitalia is made of innovative material that excels in elasticity durability resilience for effective and repetitive training.



LANDMARKS

- | velamen (amniotic sac)
- | vaginal canal
- | ischial spine
- | pubic symphysis
- | coccyx
- | anterior fontanelle



KEY FEATURES

Cervical examination

5 types of cervical dilation models and fetal descent positions can be interchanged with a single action.

- | Cervical scoring in the first stage of labor
 - Determination of station using landmarks of the ischial spine and the pubic joint to assess the descent of the body
 - Assessment of cervical dilation
- | Speculum examination
- | Observation and cervical cytology
- | Urinary catheterization



Delivery assistance

Smooth and realistic delivery



- | Delivery assistance for different delivery positions (dorsal, all-fours)
- | Perineal protection
- | Delivery of fetus (forceps delivery, vacuum extraction)
- | Clamping, tying and cutting of the umbilical cord
- | Delivery of the placenta
- | Insertion of urinary catheter



Perineorrhaphy (perineal repair)

Repetitive suture training for the first-degree perineal tears.

First-degree perineal tear repair

- | Single interrupted suture
- | Vertical mattress suture



DESCRIPTIONS

SPECIFICATIONS

Size: W74 x D44 x H33.5cm / W29.1x D17.3 x H13.2 inch Weight: 11.2kg / 24.7lbs

SET INCLUDES

1 maternal body	1 vaginal unit
1 genitalia unit (for pelvic examination and delivery assistance)	1 set of cervical dilation inserts (5 variations)
1 talcum powder	1 holder for the cervical dilation inserts
3 lubricant (150ml)	
1 instruction manual	

Parts for pelvic examination:

1 vaginal unit
1 set of cervical dilation inserts (5 variations)
1 holder for the cervical dilation inserts

MATERIALS

Soft resin
Latex free

Parts for Delivery Assistance:

1 fetus
1 placenta
3 umbilical cords for omphalotomy
1 tray
5 velamen sheets

Parts for Perineorrhaphy:

1 genitalia unit (for perineorrhaphy)

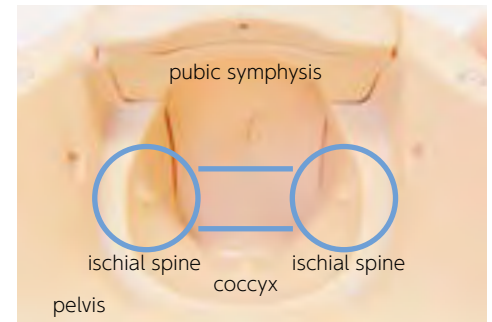
MW35



NEW

Cervical Assessment Simulator

Realistic yet durable material
for repetitive practice of cervix scoring



Station zero, the line that connects ischial spines can be recognized.

FEATURES

- 1 | Genital area made of innovative material that excels in elasticity, durability, and resilience, offers repetitive training.
- 2 | 5 types of cervical dilation models and fetal descent positions can be interchanged with a single action.
- 3 | Anterior/posterior fontanelles to determine the fetal position

SKILLS

- | Cervix scoring in the first stages of labor
- | Check fetal head position
- | Determination of bishop score (cervix score)
- | Speculum examination (i.e. Pap smear testing)
- | Urinary catheterization
- | Cervical cytology

KEY FEATURES



Cervical dilation insert can be attached by a single action.



Descent of the fetus can be set by the lever on the holder. (from -3 to +3)



External genitalia that excels in elasticity, durability and resilience

DESCRIPTIONS

SPECIFICATIONS

Size: W74xD44 x H33.5 cm
W29xD17xH13 inch

Weight: 10.3 kg / 22.7 lbs

MATERIALS

Soft resin, hard plastic
Latex free

RECOMMENDED DEVICES

-

SET INCLUDES

1 maternal body	3 lubricant (150 ml)
1 genitalia unit	1 talcum powder
1 vagina unit	1 instruction manual
1 set of cervical dilation inserts (5 variations)	
1 holder for the cervical dilation inserts	

REPLACEMENT PARTS

11415-010	1 set of cervical dilation inserts (5 variations)
11415-020	3 lubricant (150 ml)
11415-030	1 genitalia unit (for pelvic examination and delivery assistance)



MW36



NEW

Vaginal Delivery Assistance Simulator

Simulates the delivery of a newborn,
from perineal protection to delivery of the placenta



FEATURES

- 1 | Genital area made of innovative material that excels in elasticity, durability and resilience offers repetitive training opportunity.
- 2 | Anatomically correct vaginal canal, ischial spine and pubic joint that facilitate training with anatomical understanding.
- 3 | Elastic external genitalia, realistic shape of vaginal canal and the holding handle for the maternal body facilitate simulating a smooth delivery

SKILLS

- Delivery assistance for different delivery positions (dorsal, all-fours)
- Perineal protection
- Delivery of fetus (forceps delivery, vacuum extraction)
- Clamping, tying and cutting of the umbilical cord
- Delivery of the placenta
- Insertion of urinary catheter
- Inspection of the velamen



Perineal protection, anal sphincter protection



Delivery assistance



Smooth delivery of the baby



Clamping, tying and cutting of the umbilical cord



Delivery of the placenta



Inspection of placenta and velamen

KEY FEATURES



Skills training associated with anatomical understanding

Position of the fetus against the pelvis can be observed under direct vision during the delivery.

Two possible birth positions

Dorsal position
All-fours position

DESCRIPTIONS

SPECIFICATIONS

Size: W74 x D44 x H33.5 cm
W29xD17xH13 inch

Weight: 11.2kg / 24.7 lbs

SET INCLUDES

1 maternal body	3 umbilical cords for omphalotomy
1 genitalia unit (for pelvic examination and delivery assistance)	1 talcum powder
1 fetus	5 velamen sheets
1 placenta	3 lubricants (150 ml)
	1 tray
	1 instruction manual

MATERIALS

Soft resin, hard plastic
Latex free

REPLACEMENT PARTS

11415-030	1 genitalia unit
11416-020	1 placenta
11416-040	5 velamen sheets
11416-030	10 umbilical cords for omphalotomy
11415-020	3 lubricants (150 ml)

OPTIONAL PARTS

11417-020 genitalia unit (frame, skin)



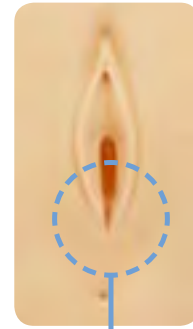
MW37



NEW

Perineorrhaphy Simulator

Practice first-degree perineal tear repairs repetitively



First-degree perineal tear



FEATURES

- 1 | Suture training for first-degree perineal tears
- 2 | Genital area that excels in elasticity, durability and resilience for multiple training opportunities.
- 3 | Optional genitalia unit for training with the maternal body.

SKILLS

- | Perineorrhaphy (perineal repair)
 - Single interrupted suture
 - Vertical mattress suture

KEY FEATURES



Genitalia skin can be mounted on the genitalia unit (optional part) for realistic training with the maternal body.

DESCRIPTIONS

SPECIFICATIONS

Size: W16 x D23 x H20.5 cm
W6.3 x D9 x H8 inch

Weight: 1.5 kg / 3.3 lbs

SET INCLUDES

- 1 genitalia insert
- 1 supporting holder
- 1 talcum powder
- 1 instruction manual

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11417-010 2 genitalia inserts (perineorrhaphy)

OPTIONAL PARTS

11417-020 genitalia unit (frame, skin)

* Suturing instruments are not included.



MW38



NEW

Uterine Involution Assessment Simulator

Practice highly realistic uterine involution assessments
via a soft, durable and elastic postpartum torso



Palpation of uterine fundus



Measurement of fundal height

FEATURES

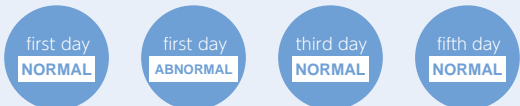
- 1 | Soft and elastic abdominal wall that permits highly realistic palpation to assess the degree of uterine involution and to measure fundal height.
- 2 | Four interchangeable uterine inserts

SKILLS

- | Assessment of uterus in early puerperium
- | Fundal height measurement
- | Palpation of uterine fundus
- | Perineal cleansing and assessment
- | Postpartum massage
- | Assessment of anal prolapse

KEY FEATURES

4 variations of uterine inserts

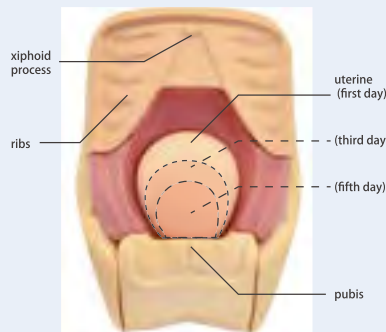


NORMAL (boundary between abdominal wall and uterine is hard and clear)

ABNORMAL (uterine is soft or unclear)

LANDMARKS

- | pubic symphysis
- | umbilicus
- | uterus



DESCRIPTIONS

SPECIFICATIONS

Size: W28 x D42 x H26 cm
W11 x D16.5 x 10.2 cm

Weight: 7.4kg / 16.3 lbs

SET INCLUDES

- 1 | puerperal lower torso
- 1 | set of uterine inserts (4 variations)
- 1 | talcum powder
- 1 | instruction manual

MATERIALS

Soft resin
Latex free

RECOMMENDED DEVICES

-

REPLACEMENT PARTS

- 11418-010 1 skin cover (for uterine involution assessment)
- 11418-020 1 set of uterine inserts (4 variations)



MW32



NEW

NCPR Simulator

Manikin that facilitates Cardio-Pulmonary Resuscitation training of newborn baby



FEATURES

- 1 | Airway management training with observable bilateral/unilateral ventilation
- 2 | Soft and realistic umbilical cord capable of venous and arterial line placement, and blood sample collection
- 3 | Feeding tube placement confirmable through gastric fluid aspiration and
- 4 | Chest compression

SKILLS

Basic neonatal care

- | Changing body position
- | Hygiene
- | Palpation of the anterior fontanelle
- | Umbilical catheterization
- | Umbilical cord care
- | Tube feeding (nasal and oral) and gastric fluid aspiration
- | Clamping, tying and cutting of the umbilical cord
- | Suction (nasal, oral)

Emergency Simulation

- | Chest compression
- | Endotracheal intubation
- | BVM ventilation

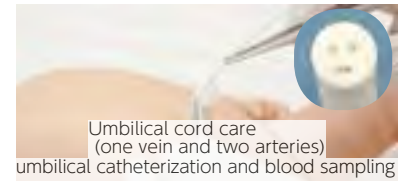
*The product is not designed for bathing.

ANATOMY

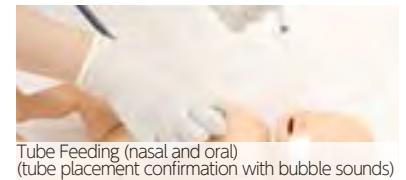
- | ribs
- | bronchi
- | lungs
- | stomach
- | esophagus
- | umbilical cord



Palpation of the anterior fontanelle



Umbilical cord care
(one vein and two arteries)
umbilical catheterization and blood sampling



Tube Feeding (nasal and oral)
(tube placement confirmation with bubble sounds)



Airway suctioning (nasal and oral)



Chest compression



Endotracheal intubation
(confirmation of unilateral/bilateral ventilation)



BVM ventilation
(rise of the chest)

DESCRIPTIONS

SPECIFICATIONS

Size: 50 cm / 19.6 inch Weight: 2kg / 4.4 lbs

SET INCLUDES

- 1 newborn manikin
- 1 lubricant
- 1 instruction manual

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

- 11400-010 1 mask for MW21, MW32
- 11400-020 1 chest skin for MW21, MW32
- 11400-030 4 umbilical cords for MW21, MW32
- 11229-050 1 lubricant

RECOMMENDED DEVICES

Feeding tube: 5fr.
Suction catheter: 5fr.
Endotracheal tube: 3.0mm ID
Umbilical catheter: 5fr., 30cm
Laryngoscope: #0
BVM: neonatal

* Instruments are not included.



MW21



NEW

NCPR Simulator Plus



Intravenous catheter insertion
(vein localization via transillumination is possible)

Added functions of PICC and IVC insertion to the standard NCPR Simulator

FEATURES

- 1 | Transillumination of the right hand and foot for IVC insertion
- 2 | Accessible veins on the right arm and leg for PICC insertion

SKILLS

In addition to NCPR Simulator, NCPR Simulator Plus trains:
IV access with transilluminator guidance

Accessible veins:

- | right arm basilic vein
- | right hand dorsal vein
- | right leg saphenous vein
- | right leg popliteal vein

*The product is not designed for bathing.

SPECIFICATIONS

Size: 50 cm / 19.6 inch Weight: 2kg / 4.4 lbs

MATERIALS

Soft resin
Latex free

SET INCLUDES

- 1 newborn manikin
- 1 lubricant
- 1 instruction manual

DESCRIPTIONS

REPLACEMENT PARTS

- 11400-010 mask
- 11400-020 chest skin
- 11400-030 umbilical cord
- 11400-040 1 right arm skin
- 11400-050 1 right leg skin
- 11400-060 4 vein tubes for right arm
- 11400-070 4 vein tubes for right leg
- 11388-400 10 simulated blood sticks (swab type)
- 11229-050 lubricant

RECOMMENDED DEVICES

- Feeding tube: 5 fr.
- Suction catheter: 5 fr.
- Endotracheal tube: 3.0mm ID
- Peripheral venous catheter: 28G x 30 cm
- Umbilical catheter: 5fr., 30cm
- Laryngoscope: #0
- BVM: neonatal

* Instruments are not included.

MW33



NEW

ELBW Infant Simulator



26-29 weeks gestation



Extremely low birth weight infant model offers the opportunities to practice fundamental skills in NICU

FEATURES

- 1 | A male infant of 26-29 weeks gestational, 900g weight
- 2 | Resuscitation training including chest compression and endotracheal intubation
- 3 | Life-like softness and delicateness
- 4 | Articulated head and neck

SKILLS

- | Changing body position, hygiene care in an incubator
- | Whole body assessment and measurement
- | Oral gastric and Nasogastric Tube placement
- | Insertion of urinary catheter
- | Bag valve mask resuscitation
- | Chest compression
- | Endotracheal intubation
- | Nasal CPAP

ANATOMY

- | bronchi
- | esophagus
- | stomach
- | articulated head and neck

*The product is not designed for bathing.

SPECIFICATIONS

Size: 35cm / 13.7 inch
Head circumference: 28cm / 11 inch

Weight: 0.9kg / 2 lbs

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

- 11413-010 1 mask for MW33
- 11229-050 1 lubricant

RECOMMENDED DEVICES

- Feeding tube: 3fr.
- Suction catheter: 3fr.
- Endotracheal tube: 2.0-2.5 mm ID
- Laryngoscope: #00
- Urine catheter: 6fr.
- BVM: neonatal (small)

* Instruments are not included.



M59/M63



Newborn Bathing and Nursery Care Model



M59 Male

M63 Female

Soft, seamless newborn manikin for skills training

Life-size 0-4 week-old infant, with the realistic weight and balance of newborn babies

FEATURES

- 1 | Non-rigid neck flexibility
- 2 | Palpable anterior and posterior fontanel
- 3 | Bendable and stretchable limbs
- 4 | Seamless, one-piece waterproof structure
- 5 | Removable umbilical cord

SKILLS

- | Bathing
- | Umbilical cord care
- | Bottle-feeding
- | Ear and nose care
- | Diaper and clothes changing
- | Physical measurement

DESCRIPTIONS

SPECIFICATIONS

Size: 50 cm / 19.6 inch

Weight: 3 kg / 6.6 lbs

Head circumference: 33 cm / 13 inch

SET INCLUDES

- | | |
|-------------------|----------------------|
| 1 newborn manikin | 1 cloth cover |
| 1 umbilical cord | 1 instruction manual |
| 1 feeding bottle | |
| 1 baby cloth | |

MATERIALS

Soft resin

Latex free

REPLACEMENT PARTS

11258-080 Umbilical cord

RECOMMENDED DEVICES

-

M58



Newborn Vital Signs Examination Simulator

Life-size newborn manikin for basic vital sign assessments

Product Supervision

Keiko Takahashi, professor
College of Nursing Science,
Fukui Prefecture University



FEATURES

- 1 | Arterial pulse in wrists, neck and temples
- 2 | Heart sounds are recorded from actual patients and synchronized with arterial pulses
- 3 | All vital signs can be controlled with the control unit

SKILLS

Vital signs examination

- | Heart sounds
- | Respiration
- | Pulses: superficial temporal, carotid and radial arteries (bilateral)
- | Body temperature (rectal thermometry)

DESCRIPTIONS

SPECIFICATIONS

Size: 50cm / 19.6 inch

Weight: 1.1kg / 2.4 lbs

Power: AC100-240V

Power Consumption: 30W

SET INCLUDES

- | | |
|-------------------|----------------------|
| 1 newborn manikin | 1 instruction manual |
| 1 control box | |
| 1 thermometer | |
| 1 baby cloth | |
| 1 storage case | |

MATERIALS

Soft resin

Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

M56B



Pediatric Patient Care Simulator

A comprehensive day-to-day, long-term care manikin for pediatric patients

Provides a variety of features for practicing essential skills and simulates pediatric patient care scenarios for nurses and caregivers

Product Supervision

Medical Association of Osaka Prefecture
Pediatric Medical Care Exploratory Committee



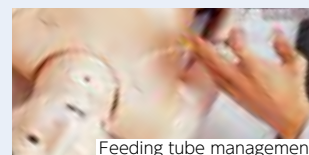
FEATURES

- 1 | Life-like 6 years old model
- 2 | Able to sit in an upright position without support.
- 3 | Oral, nasal and tracheal airway suction interchangeable female and male genitalia for catheterization training.

SKILLS

- | Positioning
- | Patient handling
- | Airway suction:
 - oral, nasal or through a tracheostomy opening
- | Percutaneous Endoscopic Gastrostomy (PEG) care
- | Feeding tube management
- | Male & female catheterization

IMAGES



DESCRIPTIONS

SPECIFICATIONS

Size: 125cm / 49.2 inch Weight: 13kg / 28.6lbs

SET INCLUDES

- | | |
|-----------------------------|------------------------------------|
| 1 pediatric manikin | 1 strap-on IV venipuncture trainer |
| 1 head & neck anatomy plate | 1 uniform (Gym clothes) |
| 1 male & female genitalia | 1 set of catheters (sample) |
| 1 syringe | |
| 1 irrigation bag | |

MATERIALS

Soft resin, hard resin
Latex free

RECOMMENDED DEVICES

-

REPLACEMENT PARTS

- 11355-020 head and mask explanation panel
- 11355-030 1 valve for catheterization
- 11355-040 replacement mouth/ nose part

M95

Simulator Pediatric IV Hand



Set of pediatric hands for practicing IV

Become confident in safe insertion of intravenous cannulas on small infant hands with thin and soft veins

FEATURES

- 1 | Fingers and dorsum of hand are flexible, able to be gripped, and
- 2 | repositionable as in real-life procedures.
- 3 | Two puncture sites on the back of the hand
- 4 | Practice dressing and securing the cannula

SKILLS

- | Pediatric dorsal veins injection
- | Blood collection
- | Intravenous infusion

DESCRIPTIONS

SPECIFICATIONS

Size: W23 x D6 x H5 cm / W9 x D2.3 x 1.9 inch (one-year-old) Power: AC100-240V
W30 x D8 x H6 cm / W11.8 x D3.1 x 2.3 inch (three-year-old) Power Consumption: 5W

SET INCLUDES

2 injection arm-hands (one-year-old)	1 spoon
2 injection arm-hands (three-year-old)	1 plastic jar
2 stands	1 plastic beaker
1 circulation pump	1 storage case
1 jar of coloring powder (red)	1 instruction manual

MATERIALS

Soft resin, hard resin
Latex free

REPLACEMENT PARTS

11350-010	1 replacement injection arm-hand (three-year-old)
11350-020	1 replacement injection arm-hand (one-year-old)

RECOMMENDED DEVICES

indwelling needle: 23G
butterfly needle: 23G

* Needle not included.

M43D

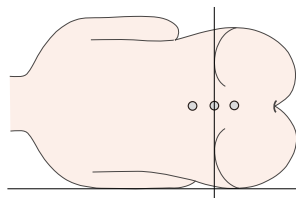
Pediatric Lumbar Puncture Simulator II

Acquire skills for safe pediatric lumbar puncture

The full body is soft and bendable to facilitate realistic body positioning required for a safe and successful lumbar puncture.



Level of posterior superior iliac crests



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
Gregory A. Plotnikoff, M.D., M.T.S., F.A.C.P.
Medical Director, Abbott Northwestern Hospital

FEATURES

- 1 | Soft, seamless baby manikin allows practice in safe patient positioning and holding.
- 2 | Two types of puncture pads: deep or shallow
- 3 | Realistic needle tip resistance
- 4 | Anatomically correct landmarks for palpation

SKILLS

- | Patient positioning
- | Palpation of landmarks
- | Lumbar puncture and CSF collection
- | CSF pressure measurement

DESCRIPTIONS

SPECIFICATIONS

Size: W43 x D34 x H20 cm Weight: 1.5 kg / 3.3 lbs
W17 x D13.4 x H7.8 inch

SET INCLUDES

1 baby manikin (7-10 months)	1 syringe (50mL)
2 pediatric LP block (shallow)	1 instruction manual
2 pediatric LP block (deep)	
1 irrigation bag	
1 stand for irrigation bag	

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11348-100-04	stand for irrigation bag
11348-100-05	irrigation bag
11348-010	pediatric LP block (shallow)
11348-420	pediatric LP block (deep)

RECOMMENDED DEVICES

22G-24G spinal needle

* Needles are not included.

MW29



NEW

Oral Care Simulator Advanced

Oral care simulator which can mimic various patient conditions

True-to-life oral cavity and the denture sets
Actual water can be used to clean oral cavity



FEATURES

- 1 | Viewable and accessible trachea and esophagus
- 2 | Interchangeable denture with tooth diseases
- 3 | Simple set-up and head positioning
- 4 | Includes washable plaque and oral thrush
- 5 | Suction training with water

SKILLS

- | Oral cavity assessment
- | Care of the oral mucous membrane
- | Brushing and cleaning of the oral cavity
- | Identifying oral thrush
- | Care for humidity retention
- | Replacement and maintenance of the denture
- | Understanding of airway suction
- | Massage of oral cavity

KEY FEATURES

Oral anatomy of denture with problems

- | spaced arch
- | food residue
- | anodontia
- | stomatitis
- | isolated tooth
- | oral thrush
- | crowding
- | gingival recession
- | root fracture
- | stump of a tooth



Patient conditions

- | Complete denture
- | Dental problems
- | Toothless
- | Intratracheal intubation
- | Tracheostomy
- | Tube feeding

Patient positions

- | Sitting position
- | Half sitting position
- | Lateral position

DESCRIPTIONS

SPECIFICATIONS

Size: W20xD33xH24.5 cm / 8x13x9.5 inch

SET INCLUDES

1 head/neck manikin	1 simulated residue	1 storage case
1 base	1 mirror	1 instruction manual
1 normal denture	2 sponge-tipped swabs	
1 denture with tooth disease	1 toothbrush	
1 denture case	1 denture brush	

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11408-020	normal denture
11408-030	denture with tooth disease
11408-010	simulated residue

* Instruments are not included.



MW25



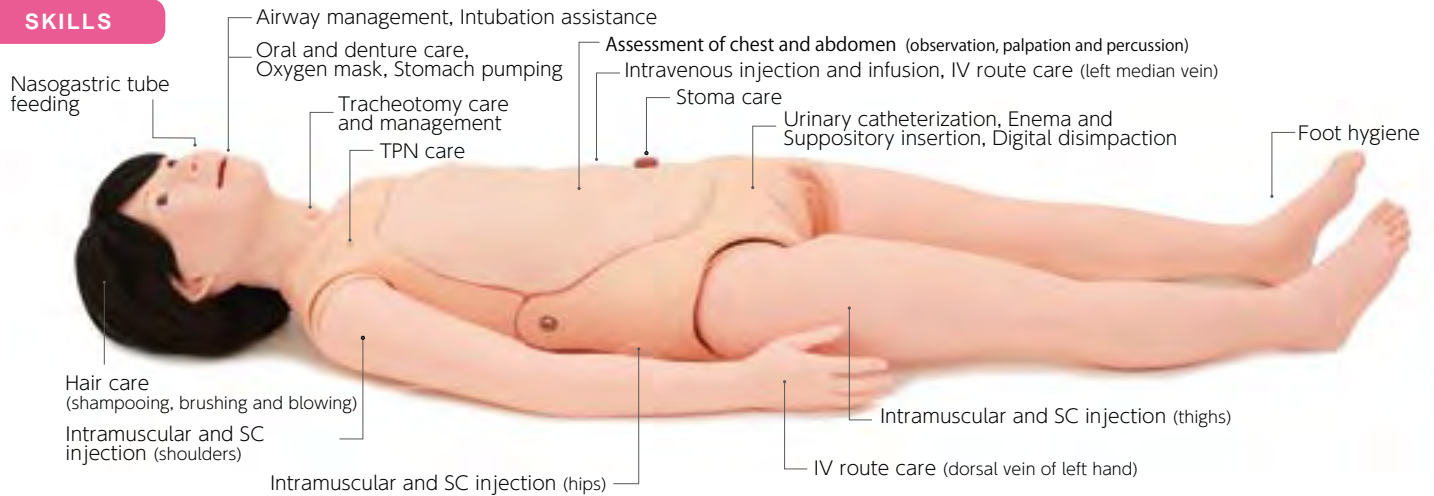
Patient Care Simulator "Yaye"

Patient simulator for uninterrupted care in community and hospital setting

Featuring more than 40 training skills, Yaye can be used in simulations for all health care workers, including students and experienced staff



SKILLS



Feeding

- | Tube feeding (oral/nasal)

Elimination

- | Urinary catheterization
- | Stoma care
- | Bedpan practice

Exercise

- | Positioning
- | Patient transfer

Pain Management

- | Heat and cold compression

Hygiene

- | Oral care
- | Bed bathing
- | Change of clothes
- | Perineal care
- | Hair care
- | Grooming and appearance

Respiratory Care

- | Oxygen management
- | Airway suction
- | Postural drainage
- | Tracheotomy care

Wound Care

- | Pressure sore care
- | Dressing management

Drug Administration

- | Central line care
- | Subcutaneous injection
- | Intramuscular injection
- | Intravenous injection and infusion
- | Enema and suppositories
- | Per vaginal medication

Critical Care

- | Intubation assistance
- | Chest compression
- | Airway management

Assessment

- | Assessment of chest and abdomen

Others

- | Gastric aspiration
- | Postmortem care

KEY FEATURES

ASSESSMENT OF CHEST AND ABDOMEN

Soft and elastic abdomen allows deep palpation



- | Thoracoabdominal inspection, palpation and percussion
- | Anatomical landmarks and soft tissue offer realistic training

Observation

Palpation

Percussion

INFUSION CARE AND MANAGEMENT

IV route training



- | Left median vein:
IV injection, infusion, securing cannula with tapes
- | Left hand dorsal vein:
Securing cannula with tapes, care during infusion



PATIENT VARIETIES

Variable age, sex and personality



Variations in face masks, wigs and external genitals offer wide possibilities of simulation settings and realistic training.



Easy Transformation

* The elderly face mask and the elderly wig with gray hair are optional parts.

INTUBATION ASSISTANCE

Airway management and CPR



Critical care such as perioperative situations and in ICU settings can be simulated.

- | Preparation of equipment
- | Oral intubation (laryngoscope and video laryngoscope)
- | Confirmation of successful ventilation by:
 - Observation of thoracic movement (lung expansion)
 - Auscultation of the chest
- | Securing the tube in place with tape
- | Chest compression

DESCRIPTIONS

SPECIFICATIONS

Size: 152cm / 59.8in. Weight: 17kg / 37.5lbs

SET INCLUDES

- 1 manikin
- 1 denture
- 1 wig (black)
- 1 face mask (young)
- 1 injection pad (median vein)
- 2 shoulder injection pads
- 2 thigh injection pads
- 2 hip IM pads
- 1 female genitalia (catheterization)
- 1 female genitalia (suppository insertion/digital disimpaction)

MATERIALS

Soft resin
Latex free

- 1 set of simulated suppository
- 1 set of simulated feces
- 1 lubricant (for airway suction etc.)
- 1 lubricant (for catheterization etc.)
- 1 irrigation bag
- 1 drainage pump (urinary bladder)
- 1 drainage pump (rectum)
- 1 drainage hose
- 1 set of pajamas
- 1 instruction manual

REPLACEMENT PARTS

- | | | | |
|-----------|--------------------------------------|-----------|--|
| 11404-080 | 6 valves for urinary catheterization | 11404-020 | face mask (young) |
| 11251-350 | rectal valve | 11404-040 | wig (young) |
| 11251-330 | simulated feces set | 11404-060 | female genitalia (catheterization, enema) |
| 11251-320 | simulated suppository set | 11251-310 | female genitalia (suppository insertion, digital disimpaction) |
| 11251-040 | 2 thigh injection pads | 11229-050 | lubricant (for airway suction etc.) |
| 11251-030 | 2 shoulder injection pads | 11381-800 | lubricant (for catheterization) |
| 11251-050 | 2 hip IM pads | | |
| 11404-050 | 4 injection pad (median vein) | | |
| 11404-070 | male genitalia | | |
| 11404-010 | face mask (elderly) | | |
| 11404-030 | wig (elderly) | | |

* Medical instruments are not included.

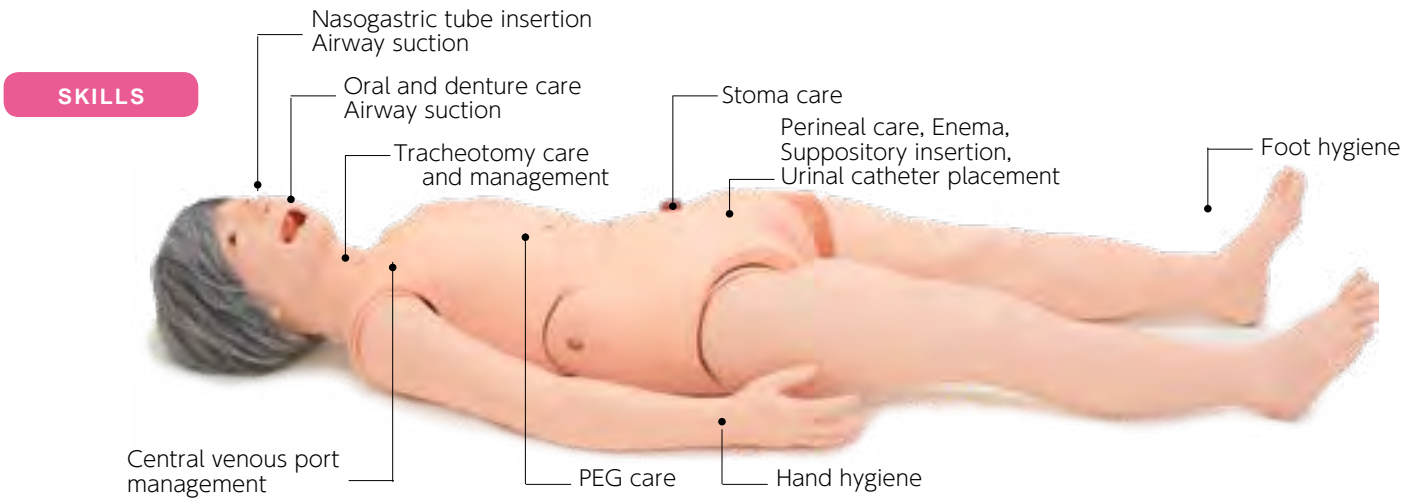


Basic Patient Care Simulator "Keiko"

Meet Keiko :

Patient simulator of geriatric care for trainees including home-care nurses and caregivers

Keiko simulates patients under long-term cares in a variety of health care settings



Feeding

- | Tube feeding (oral/nasal)

Exercise

- | Body positioning
- | Patient transfer

Wound Care

- | Pressure sore care

Pain Management

- | Hot and Cold Compressions

Elimination

- | Enema
- | Urinary catheterization
- | Stoma care
- | Bedpan practice

Hygiene

- | Oral care
- | Bed bathing
- | Change of clothes
- | Perineal care
- | Hair care*
- | Grooming and appearance

Respiratory Care

- | Oxygen inhalation
- | Airway suction
- | Postural drainage
- | Tracheotomy care

Others

- | Postmortem care

Drug Administration

- | Suppository

* Optional



KEY FEATURES

Basic Patient Care

Oral Care

- Oral care on the bed and wheel chair
- Special care for patients with feeding tubes



- | Oral assessment
- | Teeth brushing
- | Denture care

Pressure sores care

- Learn stages of pressure sores
- Pressure sore care



- | Stage 2: Scapula
- | Stage 3: Great trochanter
- | Stage 4: Sacrum bone
- | Unstageable: Heel

Perineal care

- Anatomically correct genitals for detailed care



Body positioning and transfer

- Communication
- Correct manual handling techniques
- Patient safety



- | Changing body positions
- | Supporting patient transfer

Medical Understanding

Airway Suction

- Understanding the procedure



- | Airway suction:
oral, nasal and tracheotomy (*tube insertion only)
- | Tube feeding:
oral, nasal and PEG (*tube insertion only)

Daily care with medical understandings



- | Stoma care
- | Bed bathing for the patients with central venous port
- | Perineal care for the patients with urinal catheters



Photo: Kyoto College of Nursing

* A wheelchair is not included.

DESCRIPTIONS

SPECIFICATIONS

Size: 149 cm / 58.7 inch Weight: 15kg / 33lbs

SET INCLUDES

1	manikin
1	denture
1	wig
1	oral cover for suctioning
1	female genitalia

MATERIALS

Latex free
Soft resin

1	male genitalia
1	under pants
1	wrench
1	instruction manual

REPLACEMENT PARTS

11405-010	female genitalia
11405-020	male genitalia
11401-080	denture
11229-060	oral cover for suctioning
11229-050	lubricant for training models
11381-800	lubricant for catheterization

OPTIONAL PARTS

12746-020	tracheotomy tube
11251-320	simulated suppository set
11251-330	simulated feces set
11405-030	pajama
11404-030	washable wig (elderly)
11229-070	sputum

RECOMMENDED DEVICES

Nasogastric tube feeding:
-Nasal catheter 12fr -14fr
-Gastrostomy catheter for replacements 20fr
Indwelling Urinary Catheter:
16fr (male) / 14fr (female)

MW22

Patient Care Simulator "Cherry"

Basic patient care manikin for introductory nursing

A basic full-body, nursing manikin that offers trainings of patient care for health care professionals



FEATURES

- 1 | Able to sit in upright position
- 2 | Seamless limbs up to fingers and toes
- 3 | TPN and IV routes to simulate patients with catheter lines
- 4 | True-to-life articulation for patient handling

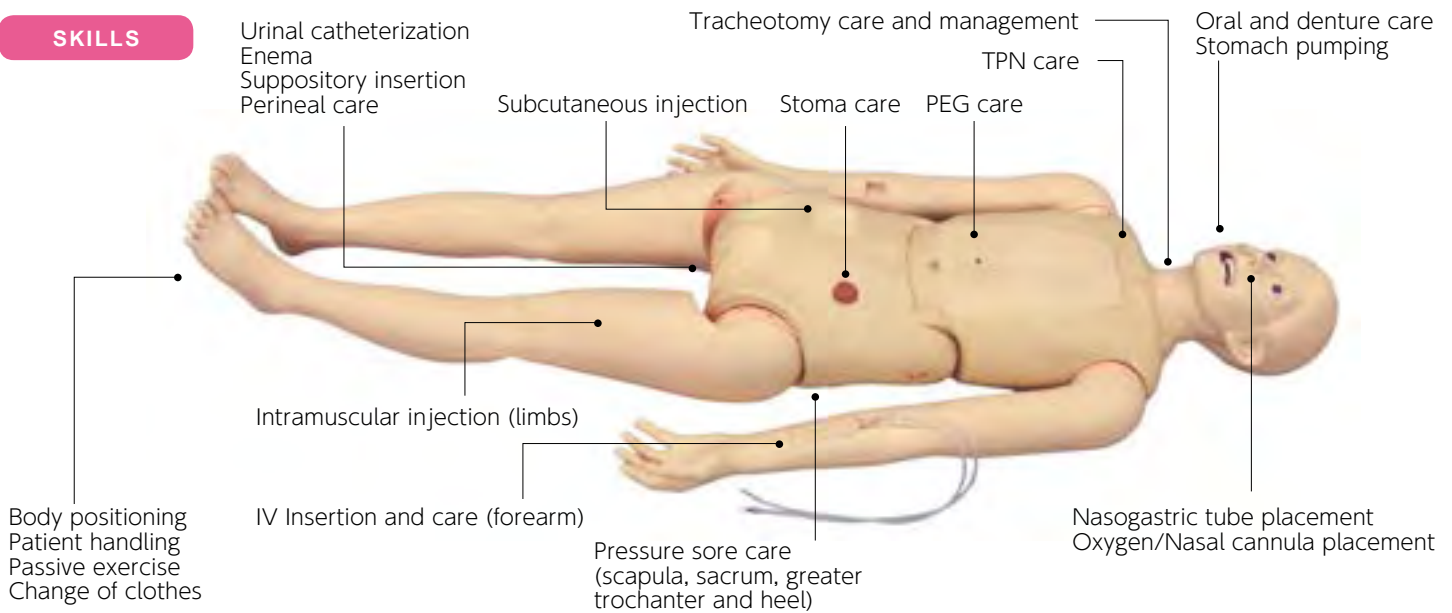


Subcutaneous injection



Wound care

SKILLS



DESCRIPTIONS

SPECIFICATIONS

Size: 157 cm/62 inch

SET INCLUDES

1 manikin	1 Female genitalia
1 denture	1 Male genitalia
1 injection pads (subcutaneous / gluteal / femoral IM / Upper arm IM)	1 Wound care pad
	1 Bottle
	1 Syringe

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11401-010	Insulin injection pad for MW22 (a set of 6)
11401-020	Gluteal IM pads for MW22 (a set of 4)
11401-030	Female genitalia unit for MW22
11401-040	Male genitalia unit for MW22
11401-050	Shoulder IM pads for MW 22 (a pair)
11401-060	Thigh IM pads for MW22
11401-070	Wound care pad for MW22 (a pair)
11401-080	Dentures(a set of upper & lower) for MW22, MW26
11401-090	Stomach for MW22
11388-200	pad

MW2A



Male Catheterization/Enema Simulator

MW2B



Female Catheterization/Enema Simulator



MW2A



MW2B

High quality simulators for urethral catheterization, perineal care and enema practice

Achieve better training results with our soft and realistic catheterization simulator that can also be used on SP or full body manikins.

FEATURES

- 1 | Soft and flexible genitalia allow proper cleaning and procedural preparation
- 2 | Successful insertion confirmation by fluid outflow
- 3 | Enema insertion in lateral position
- 4 | Detachable external genitalia

SKILLS

- | Intermittent catheterization
- | Indwelling catheterization
- | Perineal care
- | Enema
- | Localization of urethral meatus
- | Cleansing and aseptic technique
- | Catheter insertion and placement
- | Catheter Removal
- | Manual bladder compression

Compact sets consist of a genitalia unit and accessories, for hybrid training and table top demonstration.

MW2C 11381-199-B

Male Genital Unit only

**MW2D** 11381-299-B

Female Genital Unit only



Enema Training



Pass of catheter can be observed through transparent bladder reservoir

**DESCRIPTIONS****SPECIFICATIONS**

Size: 34x33x24cm / 13.5x13x9.5 inch

SET INCLUDES

- 1 lower torso manikin
- 1 genital organ unit
- 3 valves (one is incorporated in the assembled unit)
- 1 irrigation bottle

MATERIALS

Soft resin
Latex free

- 1 rectum tube
- 3 irrigation drainage tubes
- 1 lubricant
- 1 storage case
- 1 instruction manual

REPLACEMENT PARTS

- 11381-100-01 clip (small) for urethral tube for MW2A
- 11381-100-02 clip (large) for rectum unit
- 11381-100-03 urinary bladder reservoir
- 11381-100-04 rectum unit
- 11381-300 6 replacement valves for MW2A/B
- 11381-610 1 replacement female skin
- 11381-700 2 replacement female meatus
- 11381-800 lubricant
- 11381-410 1 replacement male skin
- 11381-510 2 replacement male meatus

RECOMMENDED DEVICES

* Catheters are not included.

MW8



Tube Feeding Simulator (NG, OG and PEG)

Gastric tube management simulator to learn theories and skills

Can be used as an effective educational tool for caregivers and health care professionals
The manikin has three routes and is compatible with real liquid



The manikin can be set in Fowler's position.

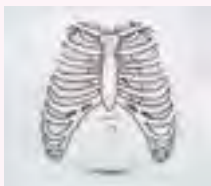
FEATURES

- 1 | Feeding tube insertion and confirmation of the tube placement (NG/OG)
- 2 | Transparent structure which allows direct observation of progress
- 3 | and tube placement
Cross-section panel and chest anatomy map for theoretical
- 4 | understandings
Flexible neck to learn appropriate neck/head positioning

SKILLS

- | Nasogastric/ oral gastric insertion, management and tube placement confirmation
- | PEG tube management
- | Physiological understanding
- | Gastric aspiration

KEY FEATURES



To facilitate anatomical understanding, the feeding routes panel for demonstration and the chest anatomy to overlay the manikin come with the set. The panel is sold separately as MW5.



Feeding Tube Insertion

Nasogastric and oral tube insertion



Administration through three Routes

Actual liquid can be administered through mouth, nose and PEG tube. Medication administration techniques can also be simulated (using water).

DESCRIPTIONS

SPECIFICATIONS

Size: 60x35x23cm / 25.6x13.7x9in.

SET INCLUDES

1 male torso	1 tube feeding routes panel
1 support base	1 chest sheet
1 drain tube	1 instruction manual
1 funnel	1 lubricant
1 plastic cup	

REPLACEMENT PARTS

11384-030	1 face mask
11386-000-01	drain hose
11386-000-02	tube feeding chest sheet
11392-070	band of face skin
11229-050	1 lubricant

RECOMMENDED DEVICES

Nasal catheter: 14fr

M85



Airway Suction Trainer

Airway suction and tracheostomy management simulator

Life-like anatomical and tactile features to further understanding temporary airway suctioning.



Nasal suction



Oral suction

FEATURES

- 1 | Facilitate understanding of the way to insert catheter.
- 2 | Transparent cross-sectional window to monitor the catheter
- 3 | Realistically viscous simulated sputum is included
- 4 | Can be easily dismantled for cleaning
- 5 | Able to open the mouth by hand

SKILLS

- | Oral suctioning
- | Nasal suctioning
- | Endotracheal suctioning

LANDMARKS

- | oral cavity
- | tongue
- | oral and nasal pharynx
- | epiglottis
- | trachea
- | esophagus

OPTIONAL PARTS

11229-060 Oral Cover for training using liquid

Oral cover to store simulated sputum can be purchased as optional parts. This oral cover is to maintain the sputum inside the oral cavity.



DESCRIPTIONS

SPECIFICATIONS

Size: 45x23x15cm / 17.7x9x5.9 inch

SET INCLUDES

1 head & neck model with airway anatomy	1 syringe
1 bottle of lubricant	1 storage case
2 catheters	1 lubricant
1 bottle of simulated sputum	1 instruction manual
1 metal tray	

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11229-020	1 replacement skin with trachea
11229-070	1 simulated sputum
11229-040	2 sample catheters
11229-050	1 lubricant

OPTIONAL PARTS

11229-060	oral cover for training using liquid
-----------	--------------------------------------

MW1



Pitting Edema Simulator

Five variations of pitting edema simulator including a normal one

Grades of the edemas are based on "Mosby's Guide to Physical Examination (7th ed.)"

Product Supervision

Junji Otaki
Professor of Tokyo Medical University



FEATURES

- 1 | Grades of the edemas are based on "Mosby's Guide to Physical Examination (7th ed.)"
- 2 | The models can be attached to the lower leg of a simulated patients or a training manikins.
- 3 | 4 levels of pitting edema according to pressures and the depth of indentations.
- 4 | Repeatable and accurate, as if palpating actual skin surface to the fibula.

SKILLS

- | Differentiation of the pitting edema: four different levels of edemas and a normal case
- | Assessment of edemas on the lower legs

KEY FEATURES



Normal

1+ Light Pitting

2+ Moderate Pitting

3+ Deep Pitting

4+ Very Deep Pitting

DESCRIPTIONS

SPECIFICATIONS

Size: 10x23cm / 3.9x9 inch

SET INCLUDES

5 variations of strap-on pitting edema model 1 piece each

MATERIALS

Soft resin
Latex free

M66

Medical Foot Care Simulator

Simulate basic podiatric care

The maintenance of healthy feet makes a significant impact on the patient's quality of life. Training for simple trimming of nails and callosities as well as general education on basic foot care

Product Supervision

Takako Egawa
Dean, Professor, Kansai University of
Nursing and Health Sciences
Professor Emeritus, Kyoto University



Trimming and removal of the callosities



Trimming and removal of the corns

FEATURES

- 1 | Realistic sensation and anatomically accurate
- 2 | Replaceable nails, corn and callosities

SKILLS

- | Trimming and clipping of toe nails (thickened nail, ingrown nail and nail ringworm)
- | Trimming and removal of callosities
- | Trimming and removal of corns
- | Foot assessment (demonstration)
- | Foot massage (demonstration)

DESCRIPTIONS

SPECIFICATIONS

Size: W21xD21xH28cm / 8.3x8.3x11 inch

SET INCLUDES

1	foot model with swivel stand	10	callosities
20	toe nails A (thickened ingrown nail)	10	corns
20	toe nails B (thickened nail with ringworm)	1	instruction manual

REPLACEMENT PARTS

11273-020	1 replacement parts set for M66	11273-030	Replacement toe nail A 20 pcs
	-toe nail A 20 pcs	11273-040	Replacement toe nail B 20 pcs
	-toe nail B 20 pcs	11273-050	Replacement callosity 10 pcs
	-callosity 10 pcs	11273-060	Replacement corn 10 pcs
	-corn 10 pcs		

* Instruments are not included.

M69

Pressure Sores Care Simulator



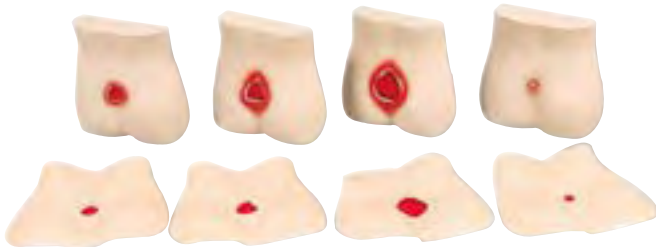
Identify four different stages of pressure ulcers

FEATURES

- 1 | 4 pressure sore manikins for classroom demonstration
- 2 | 4 pressure sore skin sets for hands-on care
- 3 | Watercolor paint and palette set included for painting original pressure sores and cleansing of the sores.

SKILLS

- | Pressure sores staging
- | Pressured area care



DESCRIPTIONS

SPECIFICATIONS

Size: 38x38cm / 15x15 inch

SET INCLUDES

4	types of the models for demo
4	types of the sore skins model
1	set of water color paints
1	set of brushes
1	set of palettes

MATERIALS

Soft resin
Latex free

MW30

NEW

Head and Neck Palpation Trainer

New, innovative and ultra-realistic touch, designed to standardize the palpation experience

With the realistically tactile material, the head and neck palpation trainer provides standard for the sensations to be equally perceived

Product Supervision

Junji Otaki,
professor and acting chief of the center,
Center for Medical Education,
Hokkaido University



KEY FEATURES



Swallowing

Swallowing motion to identify and assess the thyroid gland



Sites

Various deviations



Close-to-real-life sensation

Supple, resilient and delicate texture.

FEATURES

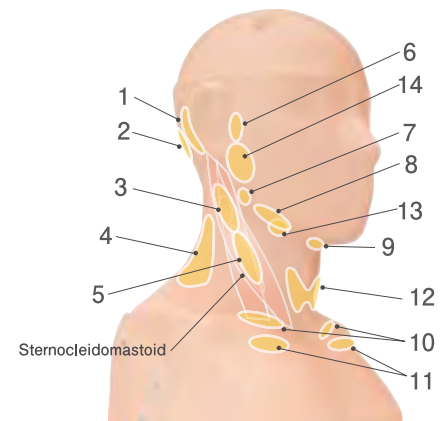
- 1 | Provides opportunities of hands-on training.
- 2 | Abnormal findings to complement training with healthy simulated patients
- 3 | Ensure that trainees share the same tactile sensation to specify the findings
- 4 | Maintain objective approaches for skills examination

SKILLS

- | Palpation of head, neck for lymph nodes, thyroid and salivary glands
- | Combine the palpation skills with findings and clinical reasoning

CASES

	Sites	Findings
1	Posterior auricular nodes	Edema/Hard
2	Occipital nodes	N/A
3	Superficial cervical nodes	Edema/Palpable
4	Posterior cervical nodes	Edema/Palpable
5	Deep cervical nodes	Edema/Palpable
6	Pre-auricular nodes	Edema/Hard
7	Tonsillar nodes	Edema/Palpable
8	Submandibular nodes	Edema/Palpable
9	Submental nodes	Edema/Palpable
10	Supraclavicular nodes	Edema/Hard/Immovable
11	Subclavicular (infraclavicular) nodes	Edema/Hard/Immovable
12	Thyroid gland	Graves' disease
13	Submandibular gland	As hard as an enlarged lymph node
14	Parotid gland	As hard as an enlarged lymph node



MW31 Head and Neck Palpation Trainer for OSCE

The palpable nodes and glands in the standard type are distributed between two identical manikins for use in situations like student exams or skill checking.



Internal findings

- A** left side: 6/1/3/10
right side: 4/5/13/12
- B** left side: 3/13/ 9/5
right side: 4/11/5

DESCRIPTIONS

SPECIFICATIONS

Size: 29x29x47cm / 11.4x11.4x18.5 inch Weight: 6.5kg / 14.3lbs

SET INCLUDES

- 1 head and neck manikin with storage case
- 1 instruction manual

MATERIALS

Soft resin
Latex free

MW43

NEW

Abdominal Simulator for Examination

True-to-life tactile representation of abdominal organs to cultivate the sense of touch and serve as a benchmark during palpation.

Product Supervision

Takahiro Amano, M.D.,
Senior Advisor for Academic Affairs and Professor
International University of Health and Welfare,
Honorary Director Sannno Medical Center, Japan

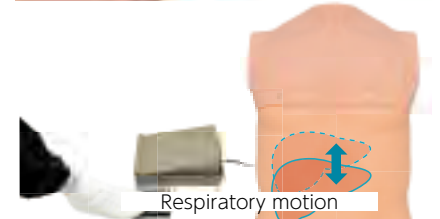
Kyoko Arai
RN, PHN, PhD, Professor,
School of Nursing, University of Shizuoka, Japan



Interchangeable organs



Supple, resilient and delicate texture



Respiratory motion

FEATURES

- 1 | Supple, resilient and delicate textures which allow both shallow and deep palpation
- 2 | Interchangeable organs
- 3 | Respiratory motion
- 4 | Abdominal auscultation

SKILLS

- | Visual Inspection
- | Auscultation
 - renal artery
 - abdominal aorta
 - iliac artery
 - bowel sounds
- | Palpation
 - liver, spleen, kidney, uterus and lymphoma
- | Percussion
 - liver, spleen and rib

KEY FEATURES

Bony landmarks

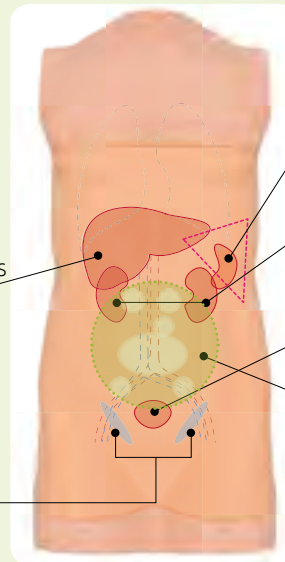
- | Pelvis
- | Ribs
- | Lower rib cage
- | Costal margin
- | Xiphisternum
- | Pubic crest
- | Anterior superior iliac spines

Liver

- | Normal
- | Chronic hepatitis
- | Early late cirrhosis
- | Cirrhosis

Inguinal area

- | Normal
- | Lymphoma



Spleen

- | Normal
- | Enlarged
- | Slightly enlarged

Kidney

- | Normal
- | Hydronephrosis
- | Polycystic kidney

Uterus

- | Normal
- | Myoma

Bruit and sounds

- Renal artery
- | Abdominal aorta
- | Iliac artery
- | Bowel sounds

DESCRIPTIONS

SPECIFICATIONS

Size: 40x80x20cm / 15.7x31.5x7.9 inch

Weight: 14kg / 30.9lbs

MATERIALS

Soft resin
Latex free

SET INCLUDES

- | | |
|---|---|
| 1 male torso unit | 2 inguinal lymph nodes (normal, lymphoma) |
| 1 talcum powder | 2 uterus (normal, fibroid) |
| 1 set of the respiratory motion control unit | 1 simulated stethoscope |
| 2 kidneys (hydronephrosis, cysts) | 1 controller |
| 2 spleens (slightly enlarged, enlarged) | 1 AC adapter |
| 4 livers (precirrhosis, cirrhosis, chronic hepatitis, normal) | 4 storage cases |
| | 1 instruction manual |



Physical Assessment Simulator "Physiko"

Physiko is more than just one simulated patient

Physiko is designed to simulate physical assessment situations for health care trainees. Twelve preset cases simulate typical complaints to provide practical experience in abnormal findings.

Product Supervision

Toyoaki Yamauchi, MD, ND, PhD
Professor
Department of Nursing Graduate School of
Medicine Nagoya University



CASES

Assessment item	Condition		
Pupillary reflex	Normal	Pupillary constriction	
	Pupillary dilation	Bilateral asymmetry	
Blood pressure	Arbitrary-setup		
Auscultation of lung sounds	Normal	Bronchial breathing	Wheezes
	Weak in the left lung	Coarse crackles	Rhonchi
	Absent in the right lung	Fine crackles	
Auscultation of heart sounds	S2 split (-)	Aortic stenosis	Atrial fibrillation
	S2 split (+)	Mitral regurgitation	Arterial flutter
	S3 gallop	Mitral stenosis	Premature ventricular contraction (single)
	S4 gallop	Aortic regurgitation	Ventricular flutter
	S3 and S4 gallop	Sinus tachycardia	Ventricular fibrillation
	Innocent murmur	Sinus bradycardia	Sound volume adjuster
Auscultation of bowel sounds	Normal	Decrease	Ileus
	Increase	Subileus	
ECG simulation	Normal	Ventricular flutter	
	Atrial fibrillation	Ventricular fibrillation	
	Atrial flutter	Myocardial infarction (acute stage)	
	Premature ventricular contraction	Myocardial infarction (subacute stage)	
	Ventricular tachycardia	Myocardial infarction (chronic stage)	



Pupillary reflex



Auscultation of lung sounds

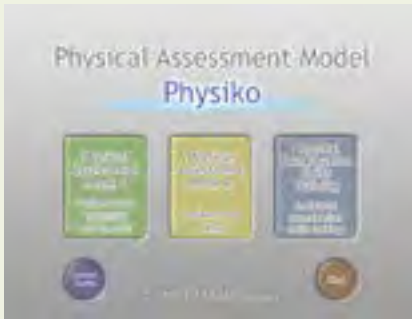
KEY FEATURES

Physical Assessment Mode 1

Patient Cases

Physiko's twelve preset patient scenarios cover typical complaints such as thoracic pain and breathing difficulty.

Top menu



Choose a patient



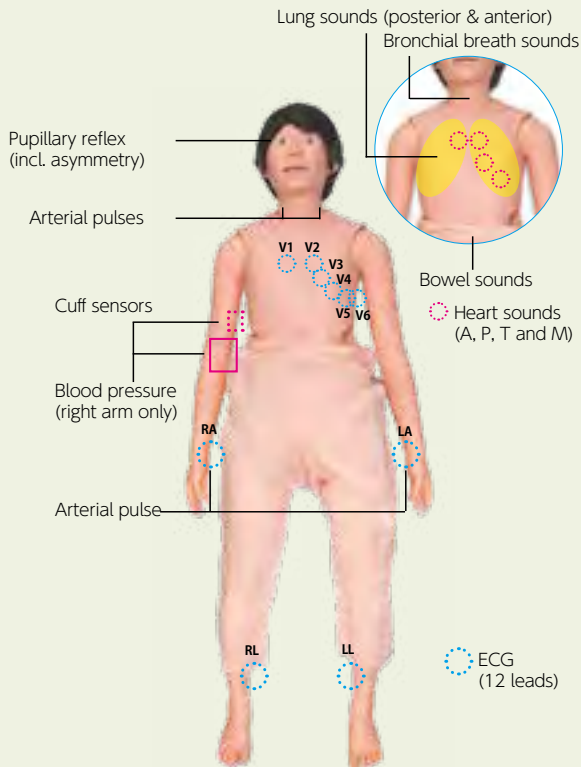
Start a session



Cases Comprehensive examination of 12 typical patients

Case	Age, Sex	Condition
Thoracic Pain	58, Male	Myocardial Infarction
	55, Male	Dissecting Aortic Aneurysm
	76, Female	Lung Infarction
	28, Male	Intercostal Muscle Ache
Abdominal Pain	26, Female	Ileus
	19, Male	Diarrhea

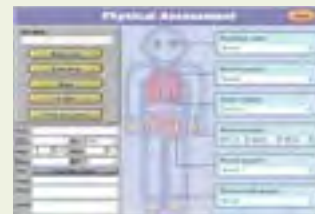
Case	Age, Sex	Condition
Lie Unconscious	36, Female	Brain Hypertension
	84, Female	Pneumonia
	66, Male	Chronic Obstructive Lung Disease (COPD)
Stuffy Feeling	70, Male	Pulmonic Fibrosis
	73, Male	Heart Failure
	21, Female	Anemia



Physical Assessment Mode 2

Patient Cases Editor

Users can create new simulated patients by selecting from the built-in options.



Physical Assessment

Skills Training

Physiko allows individual assessment skills training



DESCRIPTIONS

SPECIFICATIONS

Size: 155cm/61 inch Weight: 24kg/53lbs

Power: AC100V-240V 50/60Hz

Power Consumption: 70W

SET INCLUDES

- 1 manikin
- 1 terminal box
- 1 ECG electrodes unit
- 1 laptop PC
- 1 sphygmomanometer unit
- 1 set of clothes

MATERIALS

Soft resin, hard resin
Latex free



Cardiology Patient Simulator "K" ver.2

Hone your senses and skills for bedside cardiology

See, listen, and feel.

The cardiology patient simulator K ver.2 provides comprehensive hands-on training in cardiology and its complications.

Product Supervision:

Japanese Educational Clinical Cardiology Society,
Toshio Amano, Masaya Kino, Takaharu Saito, Tsunekazu Takashina



CASES

(MODE 1) Comprehensive patient simulation with sounds, pulses, apex beats and ECG

No.	Normal heart simulation (12 cases)	No.	Heart disease simulation (14 cases)	No.	Arrhythmia (10 cases)
A-01	S2 split (-) HR: 60	B-01	aortic stenosis	C-01	sinus arrhythmia
A-02	S1 split (+)	B-02	mitral regurgitation	C-02	sinus tachycardia
A-03	S2 split (+)	B-03	mitral stenosis	C-03	sinus bradycardia
A-04	S2 wide split	B-04	aortic regurgitation	C-04	ventricular premature contraction(1)
A-05	S3 gallop	B-05	hypertrophic cardiomyopathy	C-05	ventricular premature contraction(2)
A-06	S4 gallop	B-06	mitral steno-regurgitation	C-06	ventricular premature contraction(3)
A-07	pulmonic ejection sound	B-07	pulmonic valvular stenosis	C-07	sino-atrial block
A-08	S3 and S4 gallop	B-08	atrial septal defect	C-08	atrio-ventricular block
A-09	innocent murmur	B-09	ventricular septal defect	C-09	atrial fibrillation
A-10	midsystolic click sound	B-10	tricuspid regurgitation	C-10	atrial flutter
A-11	S2 split (-) HR: 72	B-11	acute mitral regurgitation		
A-12	S2 split (-) HR: 84	B-12	patent ductus arteriosus		
		B-13	mitral valvular prolapse		
		B-14	dilated cardiomyopathy		

(MODE 2) Arrhythmia simulation, auscultation training with ECG

A		B		C		D	
A-01	normal sinus R	B-01	atrial flutter	C-01	VVI pacemaker	D-01	vpc (quadrigeminy)
A-02	sinus tachycardia	B-02	av block	C-02	atrial pacemaker	D-02	vpc (trigeminy)
A-03	sinus arrhythmia	B-03	av block & crbbb	C-03	vent pacemaker	D-03	vpc (bigeminy)
A-04	apc solitary	B-04	av block (digial)	C-04	av seq pacemaker	D-04	vpc (couplet)
A-05	apc bigeminy	B-05	av block (mobitz)	C-05	icrbbb	D-05	pvc (repetitive)
A-06	actopic pacemaker	B-06	av block (mobitz)	C-06	crbbb	D-06	pvc (R-on-T type)
A-07	wondering pacemaker	B-07	av block (3:1&4:1)	C-07	clbbb	D-07	non-sustained VT
A-08	coronary sinus R	B-08	av & crbbb	C-08	clbbb	D-08	vent tachycardia
A-09	sinus bradycardia	B-09	paroxy atr tachy	C-09	clbbb (by ami)	D-09	vent flutter
A-10	ss syndrome	B-10	av junc R(svst)	C-10	wpw syndrome	D-10	vent fibrillation
A-11	atrial fibrillation	B-11	av junc R (pat)	C-11	wpw syndrome	D-11	vent R (sinus cond)
A-12	atrial flutter	B-12	av junc R	C-12	wpw syndrome	D-12	accel vent rhythm
A-13	atrial flutter fib	B-13	ac junc contraction	C-13	vpc (solitary)	D-13	agonal rhythm

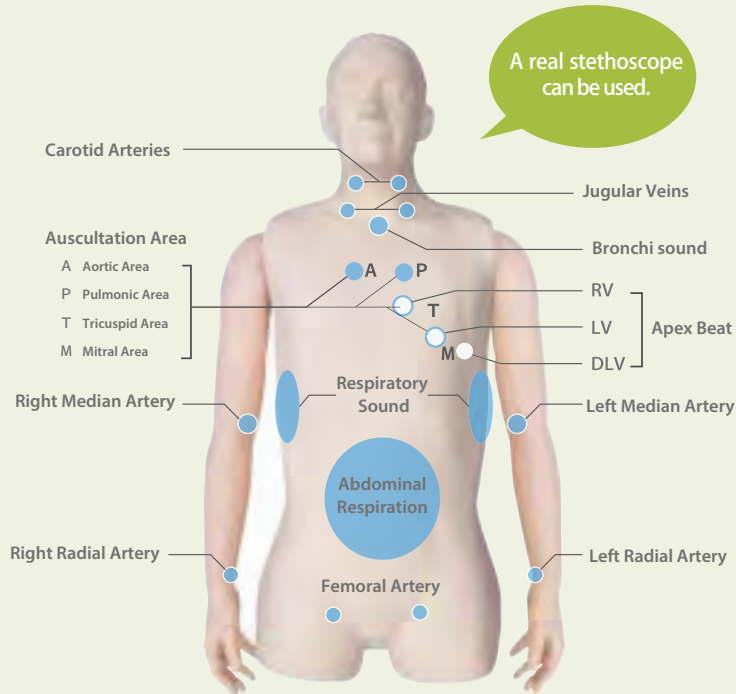


KEY FEATURES

Basic Skill Training

Physical findings of Simulator "K" ver.2

Comprehensive Clinical Examination Training



Heart Sounds and Murmurs

Auscultation synchronized with electrocardiograms and findings.

- differentiation of S1, S2, S3 and S4
- distinction between systolic and diastolic murmurs

Pulse examination

Slight variations of the arterial pulse waves under different cardiac conditions or arrhythmias can be detected by pulse examination.

Observation of Jugular Veins

The strength and timing of "α" and "V" waves vary with cases.

Palpation of Apex Beat

Simulated RV, LV and DLV can be palpated

Monitoring Screen

Real time dynamic charts on the screen:

- phonocardiogram
- sphygmogram (CAP/JVP/AC)
- electrocardiogram (ECG)

Respiratory Sounds and Abdominal Movement

Respiratory cycles are represented to understand respiratory conditions.

For Effective Training Sessions

Up to 5 Simulators at One Time

OSCE, group session and scenario based simulation



Up to five cardiology simulated cases can be controlled by one wireless tablet. Able to set different conditions in each simulator.

The system allows:

- scenario based training that involves more than one patient.
- skills assessment sessions with different cardiovascular stations.

Playlist System

Simulator "K" is not just for individual task training. Incorporated "Play List Maker" facilitates creation of scenario based training sessions whose conditions vary over time.

Playlist Maker facilitates:

- sessions with temporal change in physical findings.
- standardization of training contents among different instructors.
- saving time for preparation.

Ready-to-use

Simple connection and all-in-one unit structure.

Error Indicator

The error indicator performs check-up of the system to keep Simulator K in its best condition.

DESCRIPTIONS

SPECIFICATIONS

Size: 145x75x170cm/57x30x70 inch
Weight: 145kg/320lbs
Power: AC100V-240V 50/60Hz
Power Consumption: 400W

MATERIALS

Soft resin, hard resin
Latex free

SET INCLUDES

1	main unit with the model body	1	control PC
1	external speaker (built-in the unit)	1	rib sheet
1	PC / keyboard / mouse (built-in the unit)	1	storage cover
1	air compressor unit (built-in the unit)	4	textbooks
1	main monitor	2	instruction manuals
			-built-in help file of software operation
			-instruction manual

* A stethoscope is not included.



Lung Sound Auscultation Trainer "LSAT" ver.2

**Used by 96% of medical faculties in Japan,
LSAT is now renewed and improved!**

In just a few taps away, improve lung assessment skills by combining theory and practice with real lung sound recordings and case information.

Product Supervision

Chiharu Yoshii, M.D., Ph.D.,
Assistant Professor
Masamitsu Kido, M.D., Ph.D., Professor
Division of Respiratory Disease, University
of Occupational and Environmental Health,
Japan



* A stethoscope is not included.

CASES

Background heart sounds are available in 5 volume levels.

Normal	
A01	standard
A03	mildly strong sounds
A05	mildly rapid
A07	loud heart sounds

Coarse crackles	
C01	right lower area
C03	both lower area
C05	right upper and middle area
C07	left lower area
C09	both upper area
C11	whole area

Wheezes	
E01	upper area 600-700Hz
E03	upper area 350-450Hz
E05	upper area 200-1000Hz

Miscellaneous continuous sounds	
G01	stridor
G03	squawks

Abnormal	
B01	weak: left lower area
B02	weak: left whole area (adhesion)
B05	weak: left whole area (pneumothorax)
B07	absent: right middle and lower areas
B09	weak: right whole area
B11	absent: right whole area
B13	weak: whole area
B15	bronchial breathing

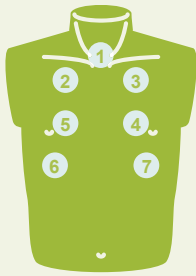
Fine crackles	
D01	both lower area
D03	both middle lower area
D05	whole area (IPF)
D07	whole area (NSIP)

Rhonchi	
F01	trachea and upper area 150-250Hz
F03	trachea and upper area 150-450Hz (polyphonic)
F05	trachea and upper area 80-120Hz
F07	whole area 80-200Hz

Miscellaneous	
H01	pleural friction rubs: right lower and middle area
H03	pleural friction rubs: left lower area
H07	Hamman's sign
H09	Vocal fremitus

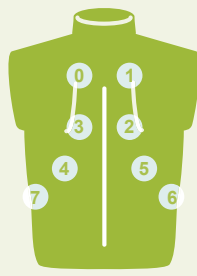
KEY FEATURES

Basic Features



Anterior

- 1. trachea
- 2. upper right lung field
- 3. upper left lung field
- 4. middle left lung field
- 5. middle right lung field
- 6. lower right lung field
- 7. lower left lung field



Posterior

- 0. upper left lung field
- 1. upper right lung field
- 2. middle right lung field
- 3. middle left lung field
- 4. lower left lung field
- 5. lower right lung field
- 6. right costphrenic angle
- 7. left costphrenic angle

Case Information

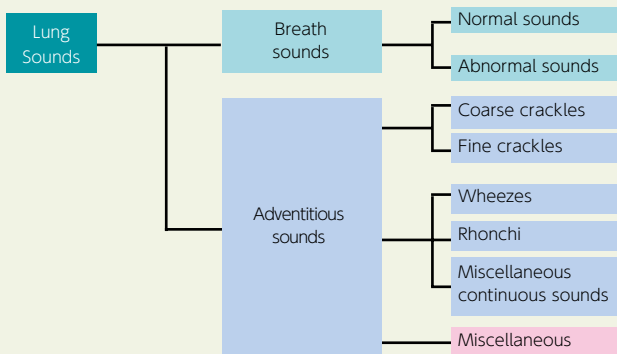
Images of plain X-ray, CT and bronchoscopy are included.



Lung sound of each area can be played by tapping the plain X-ray image

Classification of Lung Sounds

Based on acoustic analysis of recorded lungs sounds, each are classified according the American Thoracic Society standards. With this approach, lung sounds are categorized as continuous (wheezes, rhonchi, or stridor) or discontinuous (crackles). Crackles are further identified as fine or coarse.



NEW Features



Wireless multi-unit operation

Up to five "LSAT" can be controlled by one wireless control PC.



- Each simulator can be individually programmed
- Cases can be switched at any time with a simple touch



Simultaneous anterior and posterior auscultation

Two or more trainees can work together at the same time



LED light panel to indicate inspiration and expiration

Attention to respiration rate while auscultating during examination



Create a custom playlist

With 36 different cases. Playlist mode enables optimization of training sessions.



Error Indication System

The error indicator performs check-up of the system to keep LSAT in its best condition.

DESCRIPTIONS

SPECIFICATIONS

Size: 39x45x130cm
/15.3x17.7x51.2 inch
Power: AC100V-240V 50/60Hz
Power Consumption: 180W

MATERIALS

Soft resin
Latex free

SET INCLUDES

- 1 LSAT2 main unit
- 1 control PC
- 1 LSAT T-shirt
- 1 instruction manual



Patient Simulator "K" Plus Training System ver.2

For comprehensive training of chest examination

Two simulators, the Lung Sound Auscultation Trainer and the Cardiology Patient Simulator, make a complete duo for chest examination training.

With 36 lung sound cases and 88 cardiology patient cases, the "K" ver.2 Plus offers extensive array of scenarios that make it a great addition to classrooms and training sessions.



SKILLS

Clinical reasoning through the below findings

Cardiology Patient Simulator "K" ver.2

| Auscultation (heart and lung sound), pulse examination (carotid arteries/radial arteries/brachial arteries/femoral arteries), apex beat, inspection of jugular veins and abdominal respiration.

Lung Sound Auscultation Trainer "LSAT" ver.2

| Auscultation (heart and lung sound), understanding inspiration and expiration.



Auscultation of heart sounds



Observation of jugular veins

* Penlight is not included.



Auscultation of lung sounds

* Stethoscope is not included.

KEY FEATURES

Patient Simulator "K" Plus Ver.2:

- 1 | Wireless remote control with control PC
- 2 | Up to five systems can be operated simultaneously. (all five in either cardiology mode or lung sound mode)
- 3 | Ready-to-use by connecting with power supply
- 4 | Large monitoring screen for visual understanding
- 5 | Outstanding sound quality: cases are recorded from actual patients
- 6 | Natural spread of the sound from the internal speakers
- 7 | Actual stethoscope can be used
- 8 | Each case has its own explanation page



Cardiology Patient Simulator:

Find out the details of features on page 42-43.



Lung Sound Auscultation Trainer:

Find out the details of features on page 44-45.



- * The Cardiology Patient Simulator and Lung Sound Auscultation Trainer can not be operated simultaneously.
- * The Cardiology Patient Simulator software needs to be shut down to switch to Lung Sound Auscultation Trainer, and vice versa.

SPECIFICATIONS

Main unit (K ver.2)	LSAT ver.2 unit
Size: 145x75x170cm/57x30x70in. Weight: 145kg/320lbs	Size: 39x45x130cm /15.3x17.7x51.2in.
Power: AC100V-240V 50/60Hz Power Consumption: 400W	Power: AC100V-240V 50/60Hz Power Consumption: 180W

DESCRIPTIONS

SET INCLUDES

1 SimK2 and LSAT2 main unit (including a PC, a speaker, a keyboard and a mouse)	1 protect cover
1 monitor	4 text books
1 control PC	1 t-shirt for LSAT2
1 chest sheet	1 instruction manual

MATERIALS

Latex free

MW7B

NEW

Blood Pressure Measurement Trainer ver.2

Become familiar with the physiology of hypertension by blood pressure observations

With 9 preset cases, the simulator allows student lead practice in accordance with the blood pressure data obtained



Manual Inflation



Korotkoff Sounds



Palpation

FEATURES

- 1 | Nine preset cases:
- 2 | Blood pressure values can be digitally controlled at three points - Phases I, IV and V
- 3 | Realistic auscultation of phase I to V Korotkoff sounds
- 4 | Radial artery pulses synchronized with sound and cuff pressure
- 5 | Deflation rate can be numerically monitored
- 6 | Excessive cuff pressure is warned by beeping
- 7 | Random play mode for self-learning

SKILLS

- | Cuff placement
- | Manual cuff inflation
- | Auscultation of Korotkoff sounds
- | Palpation of radial pulses
- | BP reading
- | Cuff deflation

👍 Nine Preset Cases

- 1 | hypotensive
- 2 | normal
- 3 | prehypertension
- 4 | mild hypertension
- 5 | moderate hypertension
- 6 | severe hypertension
- 7 | isolated systolic hypertension
- 8 | auscultatory gap
- 9 | absence of Phase V Korotkoff sounds

DESCRIPTIONS

SPECIFICATIONS

Size: 67x18x22cm/26.4x7.1x8.7 inch Weight: 2.5kg/5.5lbs

Power: AC100V-240V 50/60Hz

Power Consumption: 10W

MATERIALS

Soft resin, Latex free

SET INCLUDES

1 arm model	1 aneroid sphygmomanometer unit
1 controller	1 instruction manual
1 AC adaptor	1 carrying bag (no photo)
1 power cable	

EAR Examination Simulator II

Practice patient-focused care during an otoscopy

EAR II is an otoscopy simulator that focuses on patient safety.

With a sensitive alarm system, patient discomfort can be alerted when the otoscope was excessively inserted.



KEY FEATURES



Alarm against painful insertion



Quick switch between cases

FEATURES

- 1 | Alarm against painful insertion:
 - beep (self learning mode)
 - silent, red light/yellow light (instructor mode)
- 2 | 9 preset cases
- 3 | Quick switch between cases
- 4 | Ear canals come in 2 sizes - normal and stenosis
- 5 | Includes simulated foreign bodies and ear wax
- 6 | Anatomically accurate and soft ear whose auricle can be pulled to straighten the auditory canal
- 7 | Work with an actual otoscope
- 8 | The manikin neck can be tilted
- 9 | Training is possible with both left and right ears

SKILLS

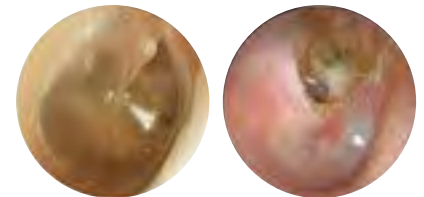
- | Ear examination with a direct otoscope
- | Ear wax and foreign body removal

CASES

- | normal
- | serious otitis media (SOM)
- | mucoid otitis media (MOM)
- | chronic otitis media with perforation
- | acute suppurative otitis media (AOM)
- | cholesteatoma
- | tympanosclerosis
- | traumatic perforations

A42 Ear anatomy B

Includes a portion of the cochlea dissected transversally, the scala vestibuli, scala tympani, canalis cochlea and hearing organs.



normal

cholesteatoma

DESCRIPTIONS

SPECIFICATIONS

Size: 42x21x39cm/16.5x8.3x15.3 inch

Weight: 1.5kg/3.3lbs

SET INCLUDES

- | | |
|--|-------------------------------------|
| 1 manikin head and shoulder | 1 types of ear units -1 pair each |
| 1 set of foreign body removal kit | -exam ear (normal) |
| -simulated ear wax, small toys, small sponge fragments and a spoon | -exam ear (stenosis) |
| | -FB ear (normal) |
| | -FB ear (stenosis) |

REPLACEMENT PARTS

- 11391-010 ear units and foreign body set
- 4 types of ear units - 1 pair each
 - ear exam (normal), ear exam (stenosis), FB ear (normal), FB (stenosis)
 - 1 set of foreign body removal kit
 - simulated ear wax, small toys, small sponge fragments and a spoon

M82



EYE Examination Simulator (3 steps)

M82A

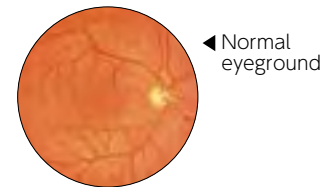
EYE Examination Simulator (2 steps)

Practical fundus examination simulator with 10 clinical images and variations.

An innovative trainer for fundus examination compatible with actual ophthalmoscope. Various cases can be set using combination of slides, depth variations and pupil diameter.

Product Supervision

Japan Society for Medical Education
Working Group with the cooperation of:
Kansai Medical University Department of Ophthalmology



◀ Normal eyeground



◀ Hypertensive retinopathy

FEATURES

- 10 fundus slide cases of common eye diseases
- Real clinical images
- Lens-equipped eyeball units that simulate the visual axis of the human eye
- Soft and supple material, making the raising of the eyelid realistic
- Adjustable depth of the fundus slides: hyperopic, normal, and myopic views.
- Red reflex can be detected
- Different sizes of pupil can be set at 3 steps in M82, 2 steps in M82A

SKILLS

- Fundus examination with direct ophthalmoscope

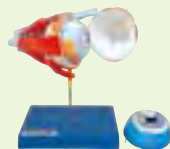
CASES

- Normal fundus
- Hypertensive retinopathy:
 - Grade 3 arteriolar vasoconstriction
 - Grade 1 arteriolosclerosis
 - hemorrhages and cotton wool spots
 - simple vein concealment
- Diabetic retinopathy:
 - microaneurysm, hemorrhages and hard exudates
- Papilloedema (chronic phase)
- Papilloedema (acute phase)
- Glaucomatous optic atrophy:
 - glaucomatous optic disc cupping and nerve fiber defect
- Retinal vein occlusion (acute phase):
 - flame-shaped hemorrhage and cotton wool spots
- Retinal vein occlusion (post retinal laser photocoagulation)
- Toxoplasmosis: retinochoroiditis
- Age-related macular degeneration:
 - macular exudates and subretinal hemorrhage

※M82A includes two normal fundus slides.

A36 Eye anatomy B

The optic nerve and the ocular muscles are represented, as well as the nerves and blood vessels. The eyeball can be dissected to show the choroids vitreous body, lens, etc.



DESCRIPTIONS

SPECIFICATIONS

Size: 42x22x38cm / 16.5x8.7x15 inch Weight: 2kg / 4.4lbs

SET INCLUDES

1 manikin head and shoulder	1 set of case slides
- 3 steps (2, 3.5, 5 mm dia.) *M82	1 slide duster
- 2 steps (3.5, 8mm dia.) *M82A	1 storage case
1 - 1 slide holder with 3 steps depth setting	1 instruction manual
1 blower	

MATERIALS

*Latex is included in the blower

REPLACEMENT PARTS

11220-010 1 replacement fundus case slides (set of 10 cases)

* ophthalmoscope is not included.



MW20

Prostate and Rectal Simulator

2-in-1 simulator for prostate and rectal exams

The Prostate and Rectal Simulator includes 9 types of prostates and 4 types of rectums which can easily be changed. The lower torso manikin can be positioned in 3 different ways



FEATURES

- 1 | Nine types of prostate simulate different scenarios
- 2 | Four rectum units
- 3 | Training with multiple prostates and rectal cases are concurrent and time efficient
- 4 | Lateral, supine and prone positioning
- 5 | 3 revolving units with 9 prostates can easily be changed.

SKILLS

- | Digital-examination of the prostate and rectum
- | Insertion and the use of the anal-scope and the proctoscope

KEY FEATURES

Cases: Nine types of Prostates



- | | | |
|------------------|----------------|----------------|
| #1 normal | #4 prostatitis | #7 carcinoma 3 |
| #2 enlargement 1 | #5 carcinoma 1 | #8 carcinoma 4 |
| #3 enlargement 2 | #6 carcinoma 2 | #9 carcinoma 5 |

Cases: Four Rectum Units



- | | |
|--------------------|--|
| #1 normal | #3 large carcinoma |
| #2 small carcinoma | #4 polyp combines with small carcinoma |

DESCRIPTIONS

SPECIFICATIONS

Size: 34x33x24cm / 13.4x13x9.4 inch

SET INCLUDES

1	lower torso manikin	4	rectum units
3	prostate units	1	Vaseline
	(include 9 types of prostates)	1	body
		1	storage case

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11399-010 prostate unit A(normal, enlargement 1&2)
11399-020 prostate unit B(prostatitis, carcinoma 1&2)
11399-030 prostate unit C(carcinoma 3,4&5)
11399-040 rectum (normal)
11399-050 rectum (small carcinoma)
11399-060 rectum (large carcinoma)
11399-070 rectum (polyp and small carcinoma)
11399-080 skin

US-11

Scrotal Ultrasound Phantom

Master techniques for a safe and painless examination

Hands-on training to accurately diagnose scrotum abnormalities

Product Supervision

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

FEATURES

- 1 | Two types of interchangeable scrotums: normal and pathology
- 2 | Excellent ultrasound image quality

SKILLS

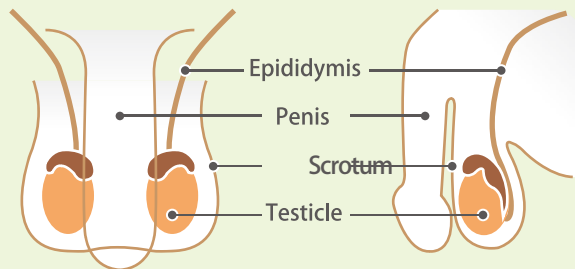
- | Patient positioning and preparation for examination
- | Scrotal ultrasound screening
- | Visualization of testicular cancer



KEY FEATURES

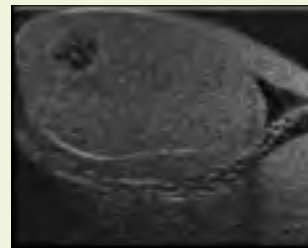
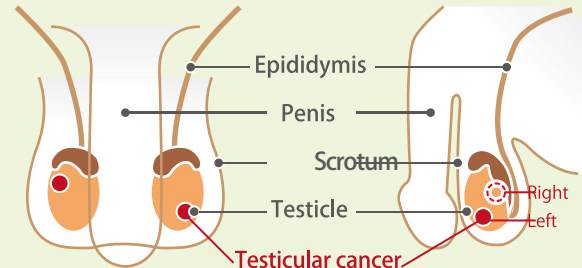
Normal phantom

- scrotum, testicle, epididymis and penis



Pathological phantom

-scrotum, testicle, epididymis and penis
-testicular cancer (each one in left and right testis, 10mm dia.)



DESCRIPTIONS

SPECIFICATIONS

Size: 34x33x24cm / 13.4x13x9.4 inch Weight: 3.6kg / 7.9lbs

MATERIALS

- 1 pelvic body
- 1 normal scrotum
- 1 pathological scrotum
- 1 storage case
- 1 instruction manual

REPLACEMENT PARTS

- 41911-010 1 normal scrotum unit
- 41911-020 1 pathological scrotum unit

* Ultrasound scanner is not included.

MW24

NEW

3D Colonoscope Training Simulator NKS

Three dimensional representation of colon, based on analytical study of CT Colonoscopy (CTC) data

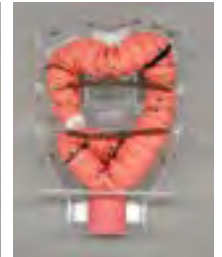
The three dimensional structure of the colon provides hands on training in a variety of skills such as prevention of loop forming, reduction of loops including a loop at LCF as well as insertion technique which forms a loop intentionally.

Product Supervision

Katuhisa Noda, MD, Noda-Genki Clinic
Takatoshi Kitada, MD, Kitada Clinic
Yasumoto Suzuki, MD, Matsushima Clinic



Short alpha loop



Long alpha loop



N loop

FEATURES

- 1 | Transparent skeleton body allows direct observation of the position of the tip of the scope as well as form of the colon.
- 2 | Stable rectal anatomy: the simulator is designed to acquire colonoscopy skills that use three Houston's valve as landmarks, which appear at the same position every time.
- 3 | The sigmoid colon can be pre-set to take up any one of the three most common morphologies, which are deprived from analysis of CTC. The patterns can be changed quickly by sliding attachments and moving the colon tube.
- 4 | The simulator is entirely water-resistant and can be cleaned easily by water.
- 5 | Light weight and compact, facilitating handling and transportation.

SKILLS

- | Colonoscopy insertion in three fundamental patterns:
 - Short alpha loop (pull back technique)
 - Long alpha loop (push forward technique)
 - N loop (pull back/push forward technique)
- | Colonoscopy insertion in three patient positions:
 - Left lateral
 - Right lateral
 - Spine
- | Manual abdominal compression

DESCRIPTIONS

SPECIFICATIONS

Size: 43x28x16cm / 17x11x6.3 inch
Weight: 6kg / 13.2lbs

MATERIALS

Soft resin, hard resin
Latex free

SET INCLUDES

1 skeleton body	1 slip resistant mat
1 abdominal membrane	1 plastic jar
1 body base	15 lubricant
1 colon-rectum tube	15 colonoscope gel
(with a cap and a plug)	1 storage case
	1 instruction manual

REPLACEMENT PARTS

11403-010 colon-rectum tube with a cap and a plug for MW24
11403-020 lubricant packs blue for MW24 (15x50ml)
11403-030 colonoscope gel for M24 (20ml each)

* Endoscope is not included.

MW39



NEW

Endoscopy Training System (ETS)

Specifically designed to meet the new training requirements by the American Board of Surgery Flexible Endoscopy Curriculum

This system consists of a straight colon unit and an anatomical colon unit which allows learners to gain endoscopic skills through practice.



FEATURES

- 1 | Fundamental scope navigation skills using dials and torque
- 2 | Basic tool skills
- 3 | Working in retroflexion
- 4 | Preventing, managing and reducing loops
- 5 | Thorough mucosal inspection

SKILLS

Straight colon model

- | Scope Manipulation
- | Tool Targeting
- | Retroflexion

Anatomic colon model

- | Loop Management
- | Mucosal Inspection



DESCRIPTIONS

SPECIFICATIONS

MATERIALS

SET INCLUDES

1	anatomic colon model
1	abdomen cover
1	stand
1	anti-slip mat
1	straight colon model
1	simulated biopsy tool
1	scope manipulation screen overlay
1	extra glue patch
1	AC adapter
30	concentrated lubricant
30	endoscope lubricant
1	colon end cap
1	plastic bottle
1	spatula
1	instruction manual

REPLACEMENT PARTS

11419-010	Straight colon tube
11419-020	Colon-rectum tube
11419-030	Colon tube fixtures (7 rings without spring, 3rings with spring)
11361-040	Lubricant for colon-rectum tube (blue packs) 30 pcs
11361-050	Endoscope lubricant (pink packs) 30 pcs
11419-040	simulated biopsy tool

* Endoscope is not included.



M40

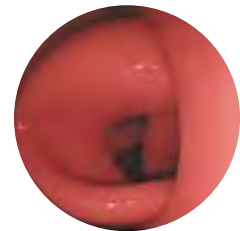
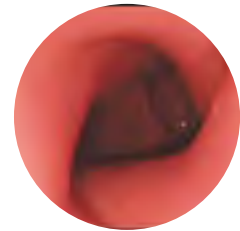


Colonoscope Training Simulator

Training for safe and effective colonoscopy

Soft and flexible colon tube provides a life-like colonoscopy simulation

With the focus of patient safety, skills like "loop" prevention can be practiced for safe advancement to the cecum



FEATURES

- 1 | Offers a variety of difficulty levels. From simple, uncomplicated to complex cases
- 2 | The colon tube can be made airtight, allowing for air insufflation and suction
- 3 | The anal sphincter opening can be manipulated with a hand ball pump

SKILLS

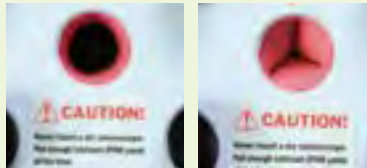
| Colonoscopy

KEY FEATURES

Select difficulty levels of training



Adjustable opening of the anus



Positioning of the body



DESCRIPTIONS

SPECIFICATIONS

Size: 48x22x30cm / 18.9x8.7x11.9 inch Weight: 6.5kg / 14.3lbs

SET INCLUDES

1 abdomen model	30	endoscope lubricants (20 ml each)
1 colon rectum tube	1	plastic bottle
1 anus unit	1	stand
1 air bulb	1	rubber sheet
1 abdomen skin cover	1	anus plug
1 set colon fixture	1	training guide
5 colon layout guides (6 cases total)	1	storage case
30 lubricants for colon-rectum tube (50 ml each)	1	instruction manual

MATERIALS

Soft resin, hard resin

Latex free

REPLACEMENT PARTS

11361-010	1	colon-rectum tube
11361-020	1	anus unit
11361-030	1	colon fixture set
11361-120	1	set of colon layout guide
11361-040		lubricant for colon-rectum tube (blue packs) 30 pcs x 50 ml each
11361-050		endoscope lubricant (pink packs) 30 pcs x 20 ml each
11361-090		anus plug for M40
11361-100		plastic bottle for MW40
11361-110		stand for M40

* Endoscope is not included.





Ultrasound Examination Training Phantom "ABDFAN"

Abdominal ultrasound phantom with pathologies

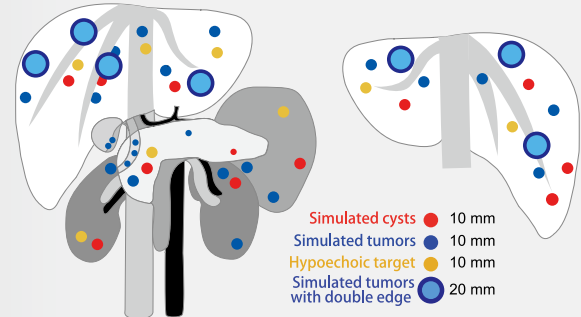
Unique high-fidelity abdominal ultrasound phantom that facilitates effective training compatible with your own clinical devices.

Product Supervision

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



Simulated lesions in liver, pancreas, kidney, spleen and gallbladder



FEATURES

- 1 | Detailed hepatobiliary, pancreatic and other abdominal anatomy
- 2 | Eight Couinaud's hepatic segments can be localized.
- 3 | ABDFAN has various simulated lesions to provide wider training variety.

Anatomy

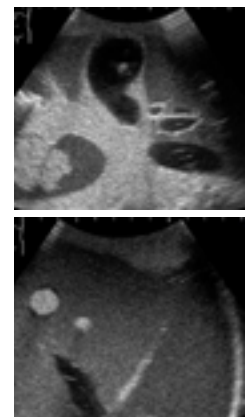
- | Liver (segmental anatomy, portal and hepatic venous systems, ligamentum teres and ligamentum venosum)
- | Biliary tract (gallbladder, cystic duct, intrahepatic and extrahepatic bile ducts)
- | Pancreas (pancreatic duct)
- | Spleen / kidneys
- | Detailed vascular structures (aorta, vena cava, celiac artery and its branches, portal vein and its branches, superior mesenteric vessels, renal vessels, and more)

SKILLS

- | Basics of abdominal sonography:
 - Cross sections and sonographic anatomy
 - Sonographic demonstration of each individual organ
 - Localization of hepatic Couinaud's segments

Pathologies

- | Hepatic lesions (cystic and solid)
- | Gallbladder and bile duct stones
- | Pancreatic tumors (one invading the portal vein)
- | Splenic lesions
- | Both kidney lesions
- | Left adrenal tumor



DESCRIPTIONS

SPECIFICATIONS

Size: 25x18x28cm / 9.8x7x11 inch Weight: 12kg / 26.5lbs

MATERIALS

Polyurethane elastomer
Latex free

SET INCLUDES

US-1B (41900-030) "ABDFAN"	US-1B (41900-100) "ABDFAN" full set
1 ultrasound phantom "ABDFAN"	1 ultrasound phantom "ABDFAN"
1 positioning pillow	1 anatomical model "ECHO-ZOU"
1 tutorial manual (DVD)	1 positioning pillow
1 storage case	1 tutorial manual (DVD)
1 instruction manual	1 storage case
	1 instruction manual





Ultrasound Examination Training Phantom "ECHOZY"

Abdominal ultrasound phantom without pathologies

Unique high-fidelity abdominal ultrasound phantom that facilitates effective training compatible with your own clinical devices.

Product Supervision

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



FEATURES

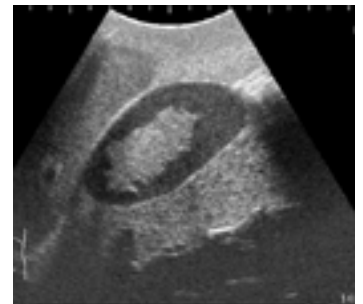
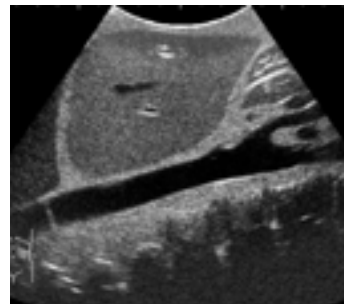
- 1 | Detailed hepatobiliary, pancreatic and other abdominal anatomy
- 2 | Eight Couinaud's hepatic segments can be localized.

SKILLS

- | Basics of abdominal sonography:
 - Cross sections and sonographic anatomy
 - Sonographic demonstration of each individual organ
 - Localization of hepatic Couinaud's segments

Anatomy

- | Liver
(segmental anatomy, portal and hepatic venous systems, ligamentum teres and ligamentum venosum)
- | Biliary tract
(gallbladder, cystic duct, intrahepatic and extrahepatic bile ducts)
- | Pancreas (pancreatic duct)
- | Spleen / kidneys
- | Detailed vascular structures
(aorta, vena cava, celiac artery and its branches, portal vein and its branches, superior mesenteric vessels, renal vessels, and more)



DESCRIPTIONS

SPECIFICATIONS

Size: 25x18x28cm / 9.8x7x11 inch Weight: 12kg / 26.5lbs

MATERIALS

Polyurethane elastomer
Latex free

SET INCLUDES

US-1 (41900-010) "ECHOZY"	US-1 (41900-000) "ECHOZY" full set
1 ultrasound phantom "ECHOZY"	1 ultrasound phantom "ECHOZY"
1 set positioning pillow	1 anatomical model "ECHO-ZOU"
1 storage case	1 set positioning pillow
	1 storage case



MW18



Ultrasound-Guided PICC Training Simulator

New, innovative, human-like material for perfect visualization

A non-complicated design with replaceable puncture site and anatomically accurate features including the rib cage, sternum, bifurcation, plus visible tip placement in the superior vena cava.

Product Supervision

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



FEATURES

- 1 | Excellent image quality and visualization of the needle tip for ultrasound guided venous access
- 2 | Movable shoulder to demonstrate positioning
- 3 | Realistic flashback in needle provides confirmation for successful venous access
- 4 | Ribs and right clavicle provide anatomical understanding of correct PICC placement
- 5 | Anatomically correct bifurcation of the vein
- 6 | Simulation of cannula malposition

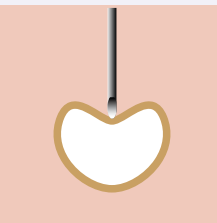
SKILLS

- | Ensure patient comfort and position
- | Hand hygiene and prepare sterile field
- | Identify puncture site
- | Ultrasound-guided insertion
- | Insertion of dilator and guide wire
- | Insertion of sheath
- | Insertion of catheter

KEY FEATURES



Ultrasound guided puncture



Movable shoulder



Malpositioning

DESCRIPTIONS

SPECIFICATIONS

Size: W40 x D15 x H60 cm Weight: 4.5kg/10lbs
W16 x D5.9 x H24 inch

SET INCLUDES

- | | |
|---------------------------------------|----------------------|
| 1 male upper torso with the right arm | 1 instruction manual |
| 2 PICC puncture pads | 1 storage case |
| 10 simulated blood (swab type) | |
| 1 jar | |
| 1 syringe | |

MATERIALS

Soft resin, hard resin
Latex free

REPLACEMENT PARTS

11398-010 2 PICC puncture pads

RECOMMENDED DEVICES

Ultrasound scanner and PICC instruments are not included.



M93UB



CVC Insertion Simulator II

Conduct a variety of CVC insertion and management simulations with the assistance of 3 interchangeable pads



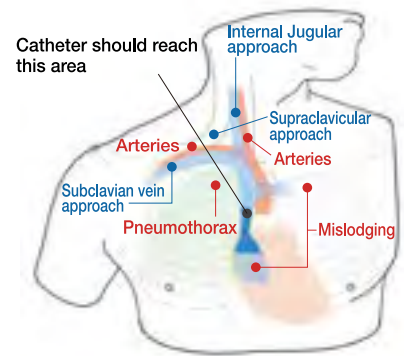
Product Supervision

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 Anesthesia, Kawatetsu Chiba Hospital



FEATURES

- 1 | Realistic ultrasound-guided CVC
- 2 | Landmark puncture pad with anatomically correct vein bifurcations simulates mechanical complications including pneumothorax, mislodging and artery puncture
- 3 | Transparent anatomical block for anatomical understanding and guide wire manipulation
- 4 | Introductory ultrasound training block to acquire basics of ultrasound guided venous access
- 5 | Both internal jugular and subclavian (axillary) veins are accessible

SKILLS

- | Ultrasound-guided CVC
- | Landmark guided CVC
- | Ultrasound-guided venous access
- | Prevention of mechanical complications

KEY FEATURES



Transparent anatomical block



Ultrasound training block



Ultrasound puncture pad

DESCRIPTIONS

SPECIFICATIONS

Size: W40 x D20 x H 34 cm
W15.8 x D7.9 x H 13.4inch

Weight: 2.3kg/5lbs

MATERIALS

Soft resin
Latex free

RECOMMENDED DEVICES

Ultrasound scanner and needles are not included.

REPLACEMENT PARTS

SET INCLUDES

1 male upper torso manikin	1 red coloring powder
1 landmark puncture pad	1 blue coloring powder
1 ultrasound puncture pad	1 air bulb
1 transparent anatomical block	2 plastic jars
1 introductory ultrasound training block	1 irrigation bottle

1 syringe	11347-119	2 landmark puncture pads	11347-170
1 sample syringe	11347-210	2 ultrasound puncture pads	11347-210
1 sample needle	11347-240	2 introductory ultrasound training blocks	11347-240
	11347-250	2 CVC placement pads	11347-250
	11347-260	pulsation unit for CVC placement pad	11347-260
	11347-320	1 pulsation unit (for M93UB)	11347-320
		irrigation bottle	



M93C

CVC Insertion Simulator III

CVC III facilitates a sequence of uninterrupted simulation experience for specialist training

From aseptic field preparation to final catheter placement



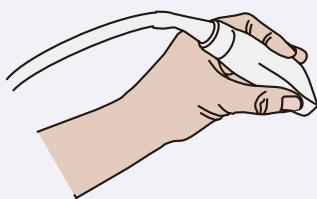
FEATURES

- 1 | Insertion practice is repeatable to obtain the best technique for patient safety.
- 2 | Both landmark guided insertion and ultrasound guided techniques can be practiced.
- 3 | The frictionless tissue-like simulation pad to facilitate the realistic sensation of CVC placement.

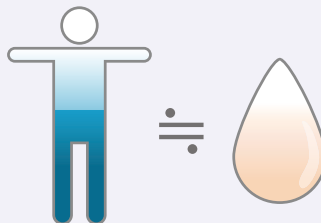
SKILLS

- Take complete steps to a successful CVC insertion
- | Perform hand hygiene practices and prepare aseptic field
 - | Decide on insertion site via ultrasound guidance or observation and palpation of landmarks
 - | Insertion under ultrasound guidance or via landmark technique
 - | Confirm flashback
 - | Advance guidewire and sheath
 - | Insert catheter

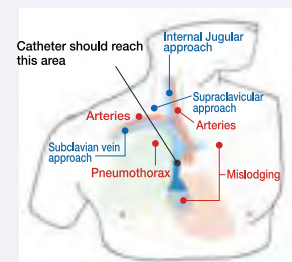
KEY FEATURES



Ultrasound compatible



Pad material simulates features of human tissue



Anatomically accurate features including 3 insertion sites and rib cage

DESCRIPTIONS

SPECIFICATIONS

Size: W40 x D20 x H 34 cm
W15.7 x D8 x H13.5 inch

SET INCLUDES

1 male upper torso manikin	2 vein tube (blue): 2 type	1 coloring powder (red/blue)
2 CVC placement pad	2 vein pipe	1 sample needle
1 skin for cannulation training	1 pulsation unit (for landmark technique)	1 syringe (2.5ml, 50ml each)
1 transparent anatomical block	1 irrigation bottle (for UG technique)	1 introductory ultrasound training block
2 artery tube (transparent): 2 type	1 plastic jar	REAL VESSELS

MATERIALS

Soft resin, hydrogel, hard resin
Latex free

RECOMMENDED DEVICES

Ultrasound machine and needles are not included.

REPLACEMENT PARTS

11347-210 2 introductory ultrasound training block REAL VESSELS
11347-240 2 CVC placement pads
11347-260 1 pulsation unit (for M93UB)
11347-320 irrigation bottle



Arterial Puncture Training Wrist

An essential simulator to increase confidence and competence

Arterial blood sampling and cannulation is a common yet delicate procedure.

With the innovative design of the arterial puncture simulator, a true-to-life experience can be simulated to ensure correct techniques and boost proficiency.

Product Supervision

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



FEATURES

- 1 | Palpable arterial pulse
- 2 | Realistic needle resistance against tissue and artery wall
- 3 | Natural flashback
- 4 | Radial arterial line placement can be simulated
- 5 | No puncture trace remains on the injection site
- 6 | One-touch, leak-free connections

SKILLS

- | Radial arterial puncture
- | Artery blood sampling
- | Radial line placement



Radial Arterial Line Placement



IABP Measurement
(The arterial pressure values are not simulated)

DESCRIPTIONS

SPECIFICATIONS

Size: W20 x D9 x H16 cm (manikin size)
W20 x D16 x H13 cm (pump size)

Power : AC100-240V, 50/60 Hz
Power Consumption:

MATERIALS

Soft resin
Latex free

RECOMMENDED DEVICES

-

SET INCLUDES

- | | |
|---|--------------------------------|
| 1 wrist and hand model | 1 jar of coloring powder (red) |
| 1 circulation pump | 1 spoon |
| 2 sets of puncture skins (inner and outer skin) | 2 plastic jars |
| 4 artery tubes | 2 connection tubes |
| 1 silicon tape | 1 vinyl sheet |

- | |
|----------------------|
| 1 syringe |
| 1 storage case |
| 1 instruction manual |

REPLACEMENT PARTS

- | | |
|-----------|----------------------------|
| 11351-010 | 1 replacement skin set |
| 11351-030 | 4 replacement silicon tape |
| 11351-040 | 4 replacement artery tube |
| 11266-080 | 1 jar of coloring powder |



MW4



Ultrasound-Guided Thoracentesis Simulator

MW4A

Ultrasound-Guided Thoracentesis Simulator - Strap-on set -

MW15

Ultrasound-Guided Pericardiocentesis Simulator

MW17

Ultrasound-Guided Thoracentesis/ Pericardiocentesis Simulator

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



SKILLS Thoracentesis

- | Patient positioning
- | Recognition of anatomical landmarks by ultrasound
- | Assessment of level and volume of pleural effusion
- | Determination of insertion site
- | Needle insertion and collection of fluid

SKILLS Pericardiocentesis

- | Patient positioning
- | Visualization of pericardial fluid under ultrasound scanning
- | Landmark palpation
- | Needle insertion to the pericardial space
- | Aspiration of pericardial effusion

DESCRIPTIONS

SET INCLUDES

	MW4	MW4A	MW15	MW17
1 adult chest model	✓		✓	✓
1 mid-axially line unit	✓	✓		✓
1 mid-scapular line unit	✓	✓		✓
1 pericardiocentesis unit			✓	✓
1 pillow for positioning	✓		✓	✓
1 explanation model for thoracentesis	✓		✓	✓
1 instruction manual	✓	✓	✓	✓

Accessories

	MW4	MW4A	MW15	MW17
1 irrigator	✓			✓
1 funnel	✓	✓		✓
1 syringes (50ml)	✓	✓	✓	✓x2
1 joint hose			✓	✓
1 tube with three-way stopcock	✓	✓		✓
1 plastic jar	✓	✓		✓

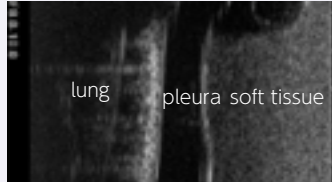
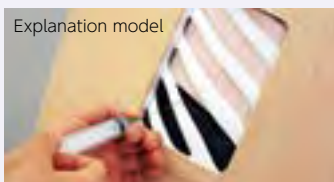
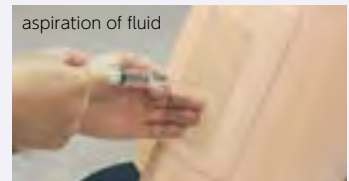
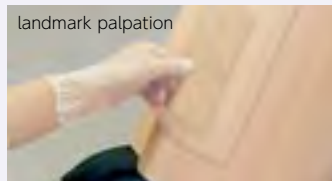
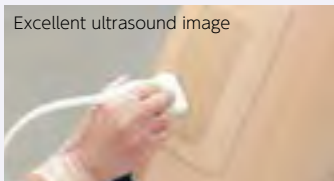
Thoracentesis

Simulate thoracentesis on both a torso and SP

Ultrasound-Guided Thoracentesis Simulator features two types of puncture units: mid-scapular line access and mid-axillary line access. Strap-on (wearable) puncture units facilitates hybrid training sessions with simulated patients.

FEATURES

- 1 | Palpable ribs
- 2 | Realistic needle-tip insertion and resistance
- 3 | Strap-on units to practice patient positioning and communication
- 4 | Two sites for access: right mid-scapular line and left mid-axillary line
- 5 | Volume of pleural effusion can be controlled to set different levels of difficulty.
- 6 | Body torso for independent training. (Only for MW4)



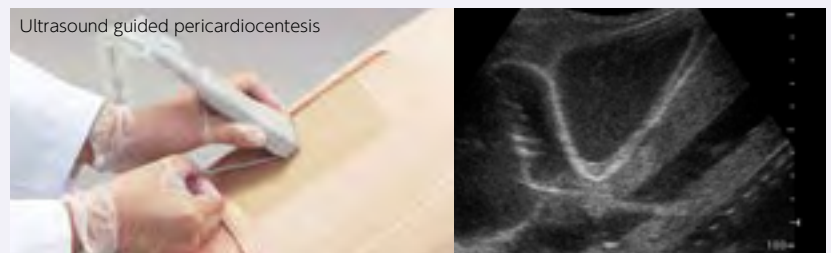
Pericardiocentesis

Practice patient safety during pericardiocentesis with ultrasound guidance

This simulator allows trainees to insert the needle under ultrasound guidance, pierce the "pericardial sac" and aspirate pericardial fluid.

FEATURES

- 1 | Durable and replaceable puncture pad
- 2 | Practice both the subxiphoid approach and parasternal approach through palpable and ultrasonic landmarks.
- 3 | Realistic needle tip sensation during puncture of the "pericardial sac"



Identification of "Larrey's point" (left xiphisternal junction) for needle insertion.

Inserting needle to the pericardial space with ultrasound guidance. Ventricles, ribs, pericardium, liver and main artery can be visualized.

DESCRIPTIONS

SPECIFICATIONS

Torso size: W38 x D25 x H48 cm / 15 x 9.9 x 18.9 inch
 Pad size: W16 x D7 x H21 cm / 6.3 x 2.76 x 8.3 inch
 Pad size: W16 x D14 x H21 cm / 6.3 x 5.6 x 8.3 inch

MATERIALS

Soft resin, hard resin
 Latex free

RECOMMENDED DEVICES

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

REPLACEMENT PARTS

11383-010 puncture pad
 11383-020 mid-scapular line unit puncture pads
 11383-030 replacement lung
 11394-010 pad for MW15

} for MW14, MW17, MW4A

M43B



Lumbar Puncture Simulator II

World's best training simulator for lumbar puncture and epidural anesthesia

Five types of puncture blocks enhance training with different types of challenges

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



FEATURES

- 1 | Anatomically accurate
- 2 | Realistic skin and tissue resistance during insertion
- 3 | Measure CSF fluid pressure, collect CSF fluid and practice epidural anesthesia procedures
- 4 | Simulates administration of epidural nerve block with realistic needle-tip sensation
- 5 | Simulates loss of resistance technique
- 6 | Model stand for either individual or group practice

SKILLS

- | Palpation of landmarks
- | Lumbar puncture
- | CSF collection
- | CSF pressure measurement
- | Epidural anesthesia
- | Anatomical understanding

KEY FEATURES

5 types of puncture blocks for variable kinds

- | normal
- | obese
- | senior
- | senior obese
- | epidural



DESCRIPTIONS

SPECIFICATIONS

Size: W33 x D21 x H30 cm
W13 x D8.3 x H11.8 inch

Weight: kg/ lbs

Power: -
Power Consumption: -

MATERIALS

Soft resin
Latex free

RECOMMENDED DEVICES

-

SET INCLUDES

1 lumbar region model	1 lumbar region skin cover	1 irrigation bag
6 lumbar puncture blocks	3 lumbar region support bases:	1 syringe
2 normal CSF, 1 obesity CSF, 1 senior CSF,	sitting position, lateral position, base for team teaching	1 stand for irrigation bag
1 senior obesity CSF, 1 epidural	1 lumbar spine model	1 instruction manual
		1 storage case

REPLACEMENT PARTS

11348-090	1 LP block (normal CSF)
11348-110	1 LP block (obesity CSF)
11348-120	1 LP block (senior CSF)
11348-130	1 LP block (senior obesity CSF)
11348-140	1 epidural block
11348-150	1 lumbar region skin cover

M43E

Ultrasound Compatible Lumbar Puncture/ Epidural Simulator

Lumbar puncture training with ultrasound guidance

Anatomically correct puncture block offers excellent ultrasound images



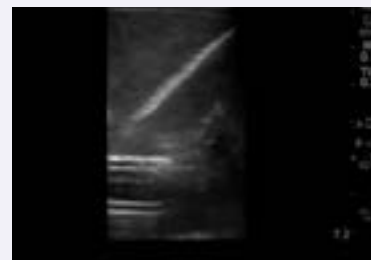
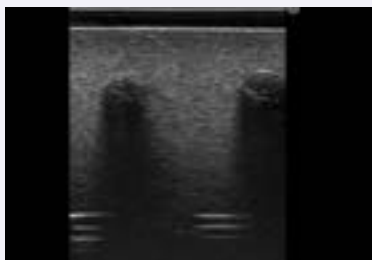
FEATURES

- 1 | Durable and replaceable parts for repetitive practice
- 2 | Adjustable to an upright or lateral position.
- 3 | Translucent block makes the needle trace visible.
- 4 | Interchangeable parts for other landmark and fluoroscopic procedure training

SKILLS

- | Ultrasound-guided lumbar puncture
- | Ultrasound-guided epidural anesthesia
- | CSF collection and CSF pressure measurement

IMAGES



DESCRIPTIONS

SPECIFICATIONS

Size: W33 x D21 x H30 cm
W13 x D8.3 x H11.8 inch

Weight: kg/ lbs

SET INCLUDES

- | | |
|--|----------------------------|
| 1 lumbar region model | 1 irrigation bag |
| 1 ultrasound lumbar puncture/epidural block | 1 syringe |
| 1 ultrasound lumbar region skin cover | 1 stand for irrigation bag |
| 2 lumbar region support bases
(upright position / lateral position) | 1 instruction manual |

MATERIALS

Soft resin, polyurethane elastomer
Latex free

REPLACEMENT PARTS

- | | |
|-----------|--|
| 11348-190 | ultrasound lumbar puncture /epidural block |
| 11348-230 | ultrasound lumbar region skin cover for M43E |

RECOMMENDED DEVICES

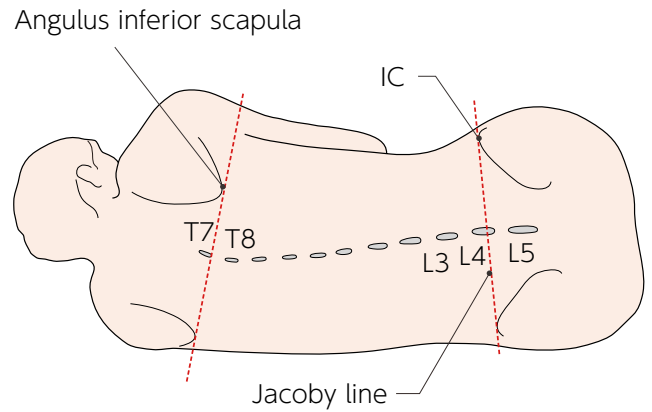
Ultrasound machine and needles are not included.

MW3

Epidural Anesthesia Simulator

Practice and perform epidural anesthesia with confidence

Epidural Anesthesia Simulator offers multiple training methods on both thoracic and lumbar areas, including lumbar punctures.



FEATURES

- 1 | True-to-life resistance with the "pop" sensation
- 2 | Left and right lateral positions
- 3 | Simulates loss of resistance to saline or water
- 4 | The broad puncture pad allows paramedian access as well
- 5 | as median approach.

SKILLS

- | Epidural anesthesia procedures at lumbar and thoracic area
- | Lumbar puncture



Landmark palpation



Epidural anesthesia



Epidural anesthesia

DESCRIPTIONS

SPECIFICATIONS

Size: W48 x D23 x H29 cm
W18.9 x D9 x H11.4 inch

Weight: kg/ lbs

Power: -
Power Consumption: -

Soft resin
Latex free

RECOMMENDED DEVICES

-

SET INCLUDES

- 1 life size unisex torso
- 5 puncture pads
- 1 supporting stand
- 1 50ml syringe

REPLACEMENT PARTS

11382-010 2 replacement puncture pads

M87

Strap-on Venipuncture Simulator

Cost-effective training unit for venipuncture

Strap-on Venipuncture Simulator is a simple, economical training kit for intravenous injection. This trainer is to be strapped onto the upper arm of an SP (Standardized Patient) or a life-size training manikin.



FEATURES

- 1 | Realistic tissue and vein wall resistance
- 2 | Vein tube can be filled and refilled easily using a soft plastic bottle that works as a manual pump.
- 3 | Three vein tubes are embedded: 2 normal and 1 thin.

SKILLS

- | Blood collection and intravenous injection

DESCRIPTIONS

SPECIFICATIONS

Size: W25 x D11 x H3 cm
W9.8 x D4.3 x H1.2 inch

Weight: kg/ lbs

Power: AC100V, 50/60 Hz
Power Consumption:

SET INCLUDES

- 5 puncture pads (vein tube embedded)
- 5 supporting frames with belt
- 5 drain tubes
- 5 injector tubes
- 5 injection bottles

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

- 11266-080 1 jar of coloring powder
- 11326-010 1 replacement puncture pad
- 11326-020 5 replacement puncture pads

RECOMMENDED DEVICES

-

M94

Intradermal Injection Training Simulator

Wheal can be shown by correct injection

This simulator provides training for intradermal injection to the inner forearm. Swelling of the skin will form when proper injection procedures are followed.



FEATURES

- 1 | Life-like touch and resistance of the injection site resembles the human arm
- 2 | Injection pads are easily changeable.
- 3 | No needle trace remains.

SKILLS

- | Intradermal Injection

DESCRIPTIONS

SPECIFICATIONS

Size: W20 x D20 x H8 cm
W7.9 x D7.9 x H3.1 inch

Weight: kg/ lbs

Power: -
Power Consumption: -

SET INCLUDES

- 5 puncture pads
- 1 forearm model
- 1 supporter stand
- 1 storage case
- 1 instruction manual

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

- 11346-010 1 replacement puncture pad

RECOMMENDED DEVICES

-

*Needle not included.

M50B-B



Simulator Intravenous Arm II



Set of two models for variable practice

Palpable veins to simulate venipuncture, intravenous cannulation and injection.

FEATURES

- 1 | 2 kinds of puncture pads for difficulty variation
- 2 | 3 accessible venous lines at cubital fossa: basilic vein, median vein, and cephalic vein
- 3 | Realistic needle tip resistance of the vein walls
- 4 | "Flash-back" can be observed.

SKILLS

- | Intravenous injection, blood collection and drip infusion

DESCRIPTIONS

SPECIFICATIONS

Size: W54 x D11 x H11 cm each
W21.3 x D4.3 x H4.3 inch

Weight: kg/ lbs

Power: AC100V, 50/60 Hz
Power Consumption:

SET INCLUDES

- | | |
|-----------------------------------|--------------------------------|
| 2 arm models with supporter stand | 1 set of spoon and plastic jar |
| 2 injection pads | 1 instruction manual |
| 2 injection pads (red) | |
| 1 circulation pump | |
| 1 jar of coloring powder (red) | |

MATERIALS

Soft resin
Latex free

RECOMMENDED DEVICES

-

REPLACEMENT PARTS

- | | |
|--------------|--|
| 11267-300-03 | 2 replacement injection pad for M50B |
| 11267-300-04 | 2 replacement injection pad for M50B (red) |
| 11266-080 | 1 jar of coloring powder |

M50D

Basic IV Arm

Quality and economy in one

Basic IV Arm is realistic with fine detail, inexpensive and durable, perfect for a large number of trainees. Lightweight, portable and easy set up so that each trainee can have their own arm to practice. The vein tube can easily be filled with simulated blood using a soft plastic injection bottle.



FEATURES

- 1 | Flexible skin and palpable veins (replicates venous dilatation)
- 2 | Realistic needle tip sensation and flashback
- 3 | Injection pad is easily replaceable and durable.
- 4 | Simulate hemostasis by compressing the injection site
- 5 | Adhesive plaster sticks well to the arm and can be easily removed.
- 6 | Integrated stand for ease of set up
- 7 | Compact, lightweight, and portable

SKILLS

- | Tourniquet application
- | Venipuncture (including puncture with IV cannula)

DESCRIPTIONS

SPECIFICATIONS

Size: W54 x D11 x D11 cm
W21.3 x D4.3 x H4.3 inch

Weight: kg/ lbs

Power: -
Power Consumption: -

SET INCLUDES

- | | |
|----------------------------------|--|
| 1 arm model with supporter stand | 1 injection bottle for simulated blood |
| 1 injection pad | 1 carrying bag |
| 1 syringe (50ml) | |
| 1 jar of coloring powder (red) | |
| 1 spoon | |

MATERIALS

Soft resin
Latex free

RECOMMENDED DEVICES

-

REPLACEMENT PARTS

- | | |
|-----------|--------------------------|
| 11388-200 | 2 injection pads |
| 11266-080 | 1 jar of coloring powder |

Peripheral Venous Catheter Placement Simulator

Holistic simulation of peripheral intravenous access management in just one arm



FEATURES

- 1 | IVC insertion and management from start to finish
- 2 | Two puncture sites: median antebrachial vein and dorsal veins
- 3 | Durable puncture pad

SKILLS

- | Infection control
- | Use of tourniquet
- | Identifying puncture site
- | Sterilization of puncture site
- | Puncture with IV cannula
- | Confirmation of flashback
- | Application of pressure on vein
- | Preparing and administering IV medications (simulated)
- | Dressing and securing cannula



Confirmation of flash back



Fixation



Application of pressure to vein

DESCRIPTIONS

SPECIFICATIONS

Size: W52 x D10 x H10 cm
W20.5 x D3.9 x H3.9 inch

Weight: kg/ lbs

Power: AC100V-240V, 50/60 Hz
Power Consumption:

MATERIALS

Soft resin
Latex free

RECOMMENDED DEVICES

-

SET INCLUDES

1 arm model	1 stand for bottle of simulated blood
2 injection pads for dorsal veins of hand	1 infusion set
2 injection pads for median antebrachial vein	1 infusion bag
	1 syringe (50ml)
1 bottle for simulated blood	1 plastic beaker

10 simulated blood sticks (swab type)
1 carrying bag
1 instruction manual

REPLACEMENT PARTS

11388-200	2 injection pads for median antebrachial vein
11388-300	2 injection pads for dorsal veins of hand
11388-400	10 simulated blood sticks (swab type)

MW16



NEW

Laparoscopic Suture Simulator -Assessment System-

Real and objective assessment to develop first class surgeons

Laparoscopic Suture Simulator evaluates skills in laparoscopic intestinal suture, as well as simple skin suture and forceps training. Simulate true-to-life scenarios by using real clinical devices, life-like softness and anatomy of the intestinal wall and dermis.

Product Supervision

Prof. Hashizume, Center for Advanced Medical Innovation Kyushu University

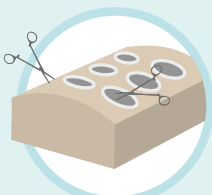


FEATURES

- 1 Innovative assessment criteria provide quantitative and objective feedback
- 2 Individual assessment data can be saved for reviewing and analysis
- 3 True-to-life simulated tissue that provides convincing hands-on experiences.
- 4 Actual clinical instruments can be used.
- 5 A variety of training options
- 6 Convenient all-in-one unit

SKILLS

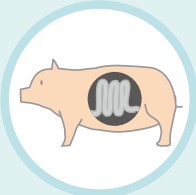
- | Laparoscopic intestinal suture
- | Skin suture under direct vision
- | Handling of laparoscopic instruments



Box trainer only

Disadvantage Limited to simple tasks

Advantage Easy to use



Wet-lab

Disadvantage Hard to set & clean up, concerns in ethical issues

Advantage Realistic



Virtual reality simulators

Disadvantage Lack of realistic feel

Advantage Objective skills assessment

Integrating Advantages of Different Training Methods

- 1 Easy to use
- 2 Realistic tissue response
- 3 Objective feedback

Laparoscopic Intestinal Tract Suture

1 | Quantitative Feedback combined with Realistic Hands-on Experience

Judging success or failure

- 1 Is the wound sutured without a leak?
- 2 Is suture completed through muscular layer to mucosal layer?
- 3 Is ligature appropriate for suture?
- 4 How much open area is there in mucosal layer?
- 5 How long does it take for suturing procedure?

The system utilizes five criteria to evaluate laparoscopic suturing skills.

Each criteria has an "acceptable" range based on expert surgeons to help improve performance.



Air leak from the sutured area can be checked by applying air pressure on the intestinal tract sheet.

* Uemura M et al. Surg Endosc. 2014. PMID: 25005015 / DOI: 10.1007/s00464-014-3681-9

2 | Life-like Intestinal Tract

Intestinal tract has four layers with respective characteristics. When holding with forceps and suturing, these four layers react like real tissue.



Evaluate simple interrupted skin suturing via quantitative assessment criteria. The Objective evaluation encourages honing of skills.



Laparoscopic Forceps Training

Forceps Training mode enables dry box training to handle laparoscopic instruments.



DESCRIPTIONS

SPECIFICATIONS

Size: W50 x D110 x H160 cm Weight: 93 kg/205lbs Power: AC100-240V, 50/60 Hz
W19.7 x D43.3 x H63 inch Power Consumption: 180 VA

SET INCLUDES

1 monitor	1 video camera for procedure recording
1 touch-monitor	1 torso body
1 video camera for assessment (intestinal tract suture)	1 unit base
1 video camera for assessment (skin suture)	1 printer
	1 key board

MATERIALS

Soft resin	1 set of trocar
Latex free	1 container
	30 pieces of suturing sheet (intestinal tract)
	30 pieces suturing sheet (skin)
	1 instruction manual

RECOMMENDED DEVICES

-
Forceps are not included.

REPLACEMENT PARTS

-



NEW

Laparoscopic Suture Simulator -Assessment System- Compact

Quantitative Feedback combined with Realistic Hands-on Experience



Product Supervision

Makoto Hashizume, Professor, Center for Advanced Medical Innovation, Kyushu University, Japan
Munenori Uemura, PhD Professor (Assistant), Center for Advanced Medical Innovation, Kyushu University, Japan

FEATURES

- 1 Innovative assessment criteria and quantitative measurement provide objective feedback to trainers.
- 2 Trainees' personal skills assessment data can be saved for reviewing and analysis.
- 3 Actual clinical instruments can be used.
- 4 Realistic and lifelike suturing sheet.
- 5 Able to create your own passing standard or adjust criteria threshold to trainees level.

SKILLS

- Laparoscopic suturing (simple interrupted suture)

KEY FEATURES

Judging success or failure

- 1 Is the wound sutured without a leak?
- 2 Is suture completed through muscular layer to mucosal layer?
- 3 Is ligature appropriate for suture?
- 4 How much open area is there in mucosal layer?
- 5 How long does it take for suturing procedure?



Life-like Intestinal Tract

Intestinal tract has four layers with respective characteristics. When holding with forceps and suturing, these four layers react like real tissue.

Easy to set up!



DESCRIPTIONS

SPECIFICATIONS

Weight: 1.5kg / 3.3lbs
(Assessment unit)

Power: AC100V-240V 50/60Hz

Power Consumption:
26VA : Assessment unit
40VA : PC

SET INCLUDES

1 laparoscopic suturing assessment unit	1 PC
1 power cable for assessment unit	1 power cable for PC
1 set of skin sheet holder	1 pieces of suturing sheet (intestinal tract)
1 cable	1 tract)
1 keyboard	1 pieces of suturing sheet (skin)

MATERIALS

Soft resin
Latex free

- 1 container
- 1 instruction manual

REPLACEMENT PARTS

11395-010 30 sets of suturing sheet
※ 1 set consist of inner layer& outer layer

RECOMMENDED DEVICES

-

Box trainer, display monitor, and forceps and camera are not included in set





Abdominal Intraoperative & Laparoscopic Ultrasound Phantom "IOUSFAN"

Effective training tool for abdominal intraoperative ultrasound examination

Phantom of abdominal organs to simulate ultrasound examinations during open and laparoscopic surgery

Product Supervision

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



Intraoperative ultrasound



Laparoscopic ultrasound



Pancreatic head



Bileduct stones



Gallstones

FEATURES

- 1 | Soft phantom materials allow realistic probe manipulation.
- 2 | Various simulated lesions.
- 3 | Detachable stomach and duodenum for various scanning of the bile duct and pancreas.

SKILLS

- | Abdominal intraoperative ultrasound examination
- | Laparoscopic ultrasound examination

ANATOMY and PATHOLOGIES

Liver

- | segmental anatomy
- | portal and hepatic venous system
- | ligamentum teres and ligamentum venosum

Biliary Tract

- | gall bladder
- | cystic duct
- | intrahepatic and extrahepatic bile ducts

Pancreas

- | pancreatic Duct

Spleen

Kidneys

Detailed vascular structures

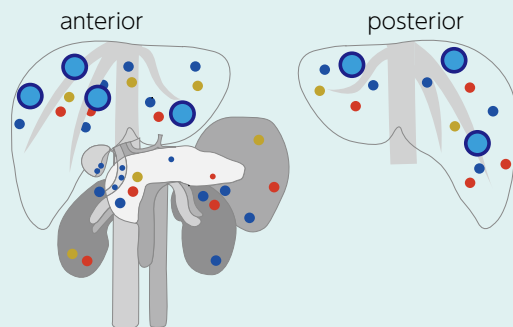
- | aorta
- | vena cava
- | celiac artery and branches
- | portal vein and branches
- | superior mesenteric vessels
- | renal vessels

Biliary Stones and Cysts

Solid Tumors in liver, pancreas, spleen and kidneys

- | hypoechoic
- | hyperechoic

Pathologies Sites



- Simulated cysts
1 cm / 0.4 in
- Hypoechoic
1 cm / 0.4 in
- Simulated tumors
1 cm / 0.4 in
- Simulated tumors with double edge
2 cm / 0.8 in

DESCRIPTIONS

SPECIFICATIONS

Size: W30 x D38 x H17.5 cm Weight: 5.8kg / 12.8lbs
W11.8 x D15 x H6.9 inch

SET INCLUDES

- 1 upper abdomen ultrasound phantom
- 1 stomach ultrasound phantom
- 1 phantom container
- 1 tutorial manual (DVD)

MATERIALS

Polyurethane elastomer
Latex free

RECOMMENDED DEVICES

-

*Ultrasound scanner is not included.

M57B



Suture Evaluation Simulator

Score your suturing

Evaluate simple interrupted skin suturing techniques by quantitative assessment criteria. Objective evaluation score and record of learning curve would encourage and motivate trainees to improve skills

FEATURES

- 1 | Three modes for different training purposes.
 - Evaluation: objective evaluation for self-learning
 - Learning: reference of examples and recorded data
 - Examination: skills assessment by the instructor
- 2 | Six evaluation criteria to guide skill improvement

SKILLS

- | Suture: Simple interrupted suture
- | Ligature: Instrument tying



DESCRIPTIONS

SPECIFICATIONS

Power: AC100V-240V, 50/60 Hz

SET INCLUDES

1 unit base	1 movie demonstration (CD)
1 skin suturing unit	1 storage case
40 sheets of simulated skin	1 instruction manual
1 USB unit	
1 PC with software	

MATERIALS

-

RECOMMENDED DEVICES

-

REPLACEMENT PARTS

11230-010 40 simulated skins

* Instruments are not included.

M57C2

Laparoscopic Suture Evaluation Simulator

Quantitative assessment of suturing skills using laparoscopic forceps.



*Training box is not included in the standard set

FEATURES

- 1 | Three modes for different training purposes.
 - Evaluation: objective evaluation for self-learning
 - Learning: reference of examples and recorded data
 - Examination: skills assessment by the instructor
- 2 | Six evaluation criteria to guide skill improvement

SKILLS

- | Suture: Simple interrupted suture
- | Ligature: Instrument tying



DESCRIPTIONS

SPECIFICATIONS

Power: AC100V-240V, 50/60 Hz

SET INCLUDES

1 M57C suturing unit	1 instruction manual
40 sheets of simulated skin	
1 USB unit	
1 PC with software	
1 demonstration movie (CD)	

MATERIALS

-

RECOMMENDED DEVICES

-

REPLACEMENT PARTS

11230-010 40 simulated skins

Instruments are not included.

M83

Suture Practice Trainers -Full set-

Various types of skins to improve the basic of suturing skills



FEATURES

- 1 | The artificial skin can be cut easily at any site to prepare a novel wound.
- 2 | The soft skins are made of durable materials.
- 3 | Simple and durable supporters keep the soft skins arched or
- 4 | maintain tension in the tubular models.
- 5 | All instruments for the practice session are included in the package.

SKILLS

4 skills for suture: abdominal skin suture, blood vessel suture, intestinal suture, limbs skin suture| AAA

KEY FEATURES



Abdomen



Blood vessel



Intestine



Limbs

DESCRIPTIONS

SPECIFICATIONS

-

SET INCLUDES

- | | |
|--|-----------------------------------|
| 1 set of simulated skins, ducts and supporters | 1 set of instruments |
| - abdomen set: 2 abdominal skins, 1 supporter | - needle-holders - suture needles |
| - blood vessels: 5 narrow tubes | - scissors - suture threads |
| - intestine set: 5 wide tubes, 1 supporter | - tweezers |
| - limbs set: 2 narrow skins, 1 supporter | 1 storage case |

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

- | | |
|-----------|---------------------|
| 11219-030 | 1 abdominal skin |
| 11219-050 | 5 blood vessels |
| 11219-070 | 5 intestinal tracts |
| 11219-010 | 5 limbs skins |

RECOMMENDED DEVICES

-

MW11



Difficult Airway Management Simulator -Assessment System-

Enhance your intubation technique to ensure and maximize patient safety

Product Supervision

This hands on simulator is the world exclusive system that offers objective feedback on intubation skills. Real time visualization of performance allows evaluation, assessment and identification of areas for improvement.

Atsuo Takanishi, Laboratory of Faculty of Science and Engineering, Waseda University



FEATURES

- Objective feedbacks are given in two ways:
 - Intubation result: assesses life-saving technique
 - Skills assessment: assesses patient experience
- Assessment criteria feedback is quantitatively monitored and displayed.
- Each session can be saved and stored for review and debriefing.
- A variety of difficult airway conditions can be set by touch panel control.
- Convenient all-in-one unit

SKILLS

- Tracheal intubation
- Intubation and ventilation on difficult airways

👍 KEY FEATURES

POINT 1

Visual Feedback of Objective Assessment



- Intubation Result Display**
Successful intubation is defined as dual-lung ventilation within the time limit.
- Multiple Skill Assessment**
Objective assessment of based upon the data taken by professionals

POINT 2

Normal and 3 Difficulty Levels of Airways



Different levels of difficulty for the intubation procedure can be set with the touch panel. There is one "normal" setting and three additional levels with increasing difficulty.

POINT 3

Records of Personal Training History Support Skills Development

The performance assessment can be saved so that users can review their skills and check their improvement.



5 most recent sessions are visually summarized to analyze each achievement

Sessions are classified by difficulty level, with success rate of the 5 most recent sessions calculated and displayed.



Record of learning history

A list of each users' data is recorded



Movie Recording

Overhead monitoring and laryngoscope point-of-view can be displayed and recorded along with the assessment data.

DESCRIPTIONS

SPECIFICATIONS

Size: W50 x D110 x H160 cm
W19.7 x D43.3 x H63 inch

Weight: 82 kg/181lbs

Power: AC100-240V, 50/60 Hz
Power Consumption: 120 VA

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

- 11392-040 1 chest skin
- 11392-050 5 pairs of lungs
- 11392-060 5 stomachs
- 11392-090 1 face mask
- 11390-010 sensor-installed tongue

RECOMMENDED DEVICES

(Macintosh laryngoscope) blade size 4
(Endotracheal tube) internal diameter 7.5mm
(Video laryngoscope) AWS-S200
* Instruments are not included.

- 11390-020 sensor (blade force and position)

SET INCLUDES

- 1 unit base
- 1 keyboard
- including 1 video camera,
- 1 lubricant for manikin
- 1 monitor, 1 manikin
- 1 instruction manual
- 1 printer
- 1 stereo mini plug

MW13



Difficult Airway Management Simulator -Training Model-

From beginners to experts with a range of difficulty levels

Difficult Airway Management Simulator provides training for users from all levels of experience with availability of 24 different cases. The robust structure and stable base make the model compatible for various training scenarios such as emergency, pre-hospital or clinical settings. A variety of actual clinical devices can be used for training, such as laryngoscope, bag valve mask, and a video laryngoscope.



Variation of DAM Setting



Neck Flexibility
(Life-like jaw movement)



Mouth Opening
- Normal
- Intermediate
- Difficult



Tongue
- Normal
- Swollen



Laryngospasm
- Normal
- Laryngospasm

FEATURES

- 24 variations of patient scenario (including 1 normal case):
3 stages of mouth opening, 2 stages of neck flexibility,
2 tongue sizes and 2 positions of the vocal cords
- Upper incisors are designed to break off when excessive force is applied.

Variation of DAM Training



Bag-Valve-Mask
Ventilation

Confirmation of
Endotracheal Tube
Placement

A Variety of
Possible Airway Skills

SKILLS

- Airway opening techniques (head tilt, jaw thrust)
- Bag-Valve-Mask ventilation
- Pre-intubation airway assessment
- Recreating the sniffing position
- Pressurization of external larynx to improve the laryngeal view
- Intraoral/Intranasal Intubation
- Use of oropharyngeal airway (OPA)
- Use of nasopharyngeal airway (NPA)
- Use of laryngeal airway mask
- Use of video laryngoscope
- Confirmation of successful ventilation by:
-observation of thoracic and abdominal movement
(lung expanding, stomach inflating) or auscultation
of the chest
- Simulates incorrect procedures including intubation in the
esophagus and unilateral intubation
- Practice securing tubes after intubation

DESCRIPTIONS

SPECIFICATIONS

Size: W70 x D39 x H25 cm
W27.6 x D15.4 x H9.8 inch

Weight: 6.6kg / 14.6lbs

SET INCLUDES

1 manikin	1 instruction manual
3 upper incisors	
1 lubricant	
1 syringe	
1 carrying bag	

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11392-010	10 upper incisors
11392-090	1 face mask
11392-040	1 chest cover
11392-080	2 replacement tongues II
11392-050	5 pair of lungs
11392-060	5 stomachs
11229-050	lubricant

RECOMMENDED DEVICES

(Macintosh laryngoscope) blade size 3, 4
(Endotracheal tube) internal diameter
7.0mm, 7.5mm
(Laryngeal mask) Air-Q: size 3.5
LMA Supreme: size 4
I-gel: size 4

* Instruments are not included.

OPTIONAL PARTS

11384-100 bronchofiberscopy training unit



MW14



Difficult Airway Management Simulator -Demonstration Model-

Great addition to a demonstration tool for airway management

Compact table-top design, anatomical accurate and a variety of DAM settings.
Ideal for demonstration of skills and devices.



FEATURES

- 1 | Anatomically correct airway
- 2 | The incisors are removable when excessive force is applied.
- 3 | Successful tube tip placement can be confirmed by indicators.

SKILLS

- | Airway opening techniques (head tilt, jaw thrust)
- | Bag-Valve-Mask ventilation
- | Pre-intubation airway assessment
- | "Sniffing position"
- | Pressurization of external larynx to improve the laryngeal view
- | Intraoral/Intranasal Intubation
- | Use of oropharyngeal airway (OPA)
- | Use of nasopharyngeal airway (NPA)
- | Use of laryngeal mask airway
- | Use of video laryngeal scope
- | Confirmation of successful ventilation by indicators.
- | Feedback of incorrect procedures including esophagus intubation and unilateral intubation
- | Securing the tube in place with tape or Thomas™ endotracheal tube holder

DESCRIPTIONS

SPECIFICATIONS

Size: W45 x D20 x H25 cm
W17.7 x 7.9 x H9.8 inch

Weight: 2.65kg/ 5.84lbs

Power:
Power Consumption:

SET INCLUDES

1	manikin	1	syringe
3	upper incisors	1	carrying bag
1	lubricant	1	instruction manual

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11393-020	1	face mask
11392-080	2	replacement tongues II
11392-010	10	upper incisors
11229-050		lubricant

RECOMMENDED DEVICES

(Macintosh laryngoscope) blade size 3,4
(Endotracheal tube) internal diameter
7.0mm, 7.5mm
(Laryngeal mask) Air-Q: size 3.5
LMA Supreme: size 4
I-gel: size 4

* Instruments are not included.

MW19



Difficult Airway Management Simulator for Bronchofiberscopy

Realistic trainings in insertion and management of a fiberscope

Anatomically correct trachea and bronchi provides realistic view through a scope,
allowing recognition of bifurcations.



FEATURES

- 1 | Anatomically correct trachea and bronchi that include trachea bifurcation for segmental bronchi.

SKILLS

- | Insertion and management of a fiberscope
- | Recognition of bifurcations by a fiberscope
- | Airway opening techniques (head tilt, jaw thrust)
- | "Sniffing position"

DESCRIPTIONS

SPECIFICATIONS

Size: W45 x D20 x H25 cm
W17.7 x 7.9 x H9.8 inch

Weight: 2.65kg/ 5.84lbs

SET INCLUDES

1	manikin	1	instruction manual
3	upper incisors		
1	lubricant		
1	syringe		
1	carrying bag		

MATERIALS

Soft resin
Latex free

REPLACEMENT PARTS

11393-020	1	face mask
11392-080	2	replacement tongues II
11392-010	10	upper incisors
11229-050		lubricant

RECOMMENDED DEVICES

(Macintosh laryngoscope) blade size 3, 4
(Endotracheal tube) internal diameter
7.0mm, 7.5mm
(Laryngeal mask) Air-Q: size 3.5
LMA Supreme: size 4
I-gel: size 4

* Instruments are not included.





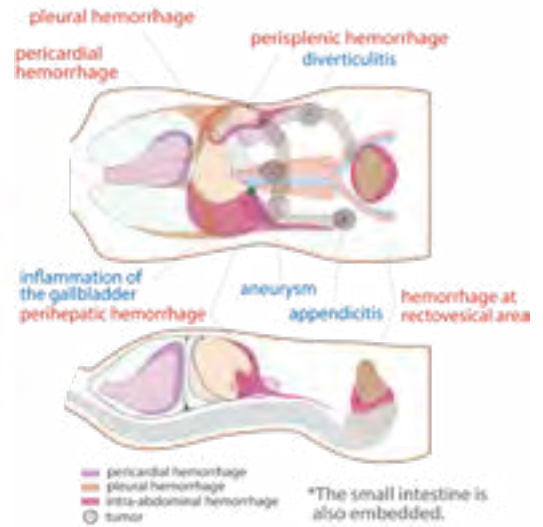
FAST/Acute Abdomen Phantom "FAST/ER FAN"

Conduct "FAST" assessment to save a trauma patient!

Product Supervision

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

FAST/ER FAN provides simulated training in FAST (Focused Assessment with Sonography for Trauma); an ultrasound examination directed at detection of the presence of free fluid in trauma patients.



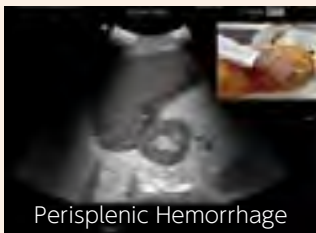
FEATURES

- 1 | An innovative phantom for repetitive training of FAST as an adjunct to the ATLS primary survey
- 2 | Pathologies include cholecystitis, an aortic aneurysm and a lesion on the colon.

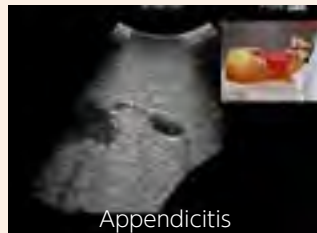
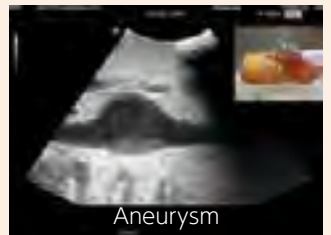
SKILLS

- | Internal hemorrhage at perihepatic, perisplenic, pelvis and pericardium area
- | Sonography for acute patients

FAST



Acute abdomen



DESCRIPTIONS

SPECIFICATIONS

Size: W62 x D30 x H24 cm Weight: 30kg / 66lbs
W24.4 x D11.8 x H9.4 inch

SET INCLUDES

- 1 | ultrasound phantom with carrying base
- 1 | tutorial manual (DVD)

MATERIALS

Polyurethane elastomer
Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

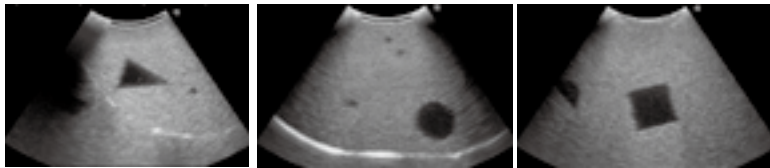
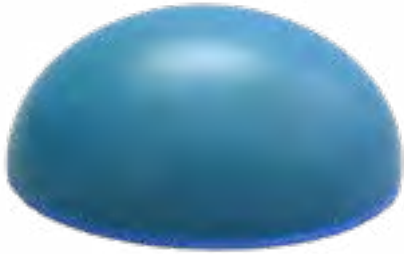
*Ultrasound scanner is not included.

US-18

NEW

Fundamental Ultrasound Phantom

This oval phantom which helps sonographers with basic trainings



FEATURES

- 1 | Phantom for basic manipulation of ultrasound transducer
- 2 | Recognition of shape, echogenicity, distance, and practice of horizontal transducer works, which are all you are able to learn through this oval phantom

SKILLS

- | Interpret 2-D cross sectional images into the shape of 3-D dimensional objects
- | 10 objects are embedded
- | Adjusting Time-Gain Compensation to obtain suitable density
- | Measuring dimensions and distance
- | Transducer handling to obtain accurate 2-D cross-section image
- | Flat and spheroidal surfaces provide a variety of difficulty

DESCRIPTIONS

SPECIFICATIONS

Size: W24 x D16 x H11 cm/ W9.5 x D6.3 x H4.3 inch Weight: 2.3kg/ 5lbs

SET INCLUDES

-

MATERIALS

Polyurethane elastomer
Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

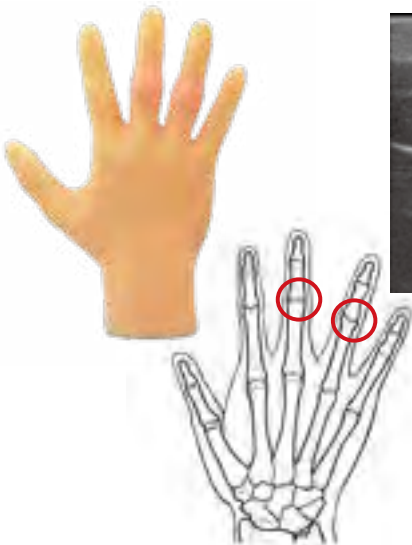
*Ultrasound scanner is not included.

US-17

NEW

Rheumatoid Hand Phantom

Ultrasound examination is a key skill for early diagnosis on rheumatoid arthritis.



FEATURES

- 1 | For skills training in ultrasound examination on rheumatoid arthritis
- 2 | Synovial thickening and increased synovial fluid are simulated on middle and ring finger.

SKILLS

- | Ultrasound examination on rheumatoid arthritis

DESCRIPTIONS

SPECIFICATIONS

Size: 17 x 5 x 21 cm
6 x 2 x 8 inch

SET INCLUDES

- 1 | hand manikin
- 1 | instruction manual
- 1 | storage case

MATERIALS

Polyurethane elastomer
Latex free

REPLACEMENT PARTS

-

RECOMMENDED DEVICES

-

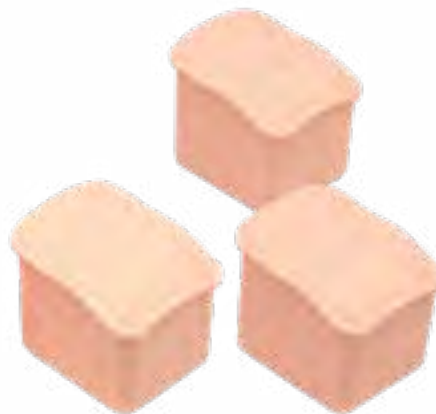
*Ultrasound scanner is not included.

US-16

NEW

Intravesical Urine Volume Measurement Phantom

Pocket-sized ultrasound is gaining popularity and starting to be utilized more in daily care for examination. This method is preferred as catheterization may cause urinary infection.



FEATURES

- 1 | 4 variations of interchangeable inserts feature different patient scenarios.

SKILLS

- | Handling and manipulation of transducers on bladder ultrasound
- | Scanning the bladder to measure urine volume and findings.

KEY FEATURES



Urine volume 50mL



Urine volume 150mL



Urine volume 300mL



Urinary retention + balloon catheter

DESCRIPTIONS

SPECIFICATIONS

Size: 30 x 26 x 18 cm
12 x 10 x 7 inch

Phantom: 1.5kg / 3.3lbs
Body: 3.2kg / 7.1lbs

MATERIALS

Latex free

RECOMMENDED DEVICES

-

SET INCLUDES

- 1 lower torso manikin
- 4 ultrasound blocks
- 1 storage case
- 1 instruction manual

REPLACEMENT PARTS

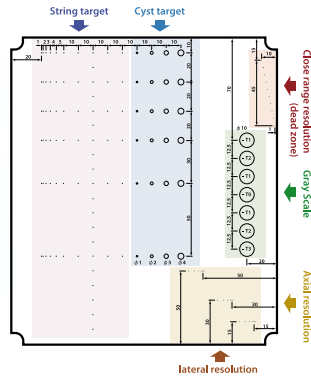
-

US-2

Ultrasound QA Phantom (Multi Purpose Phantom N-365)

Durable and stable

Useful both for daily assessment and further research. Gray scale for evaluation, cyst targets with non-resonance cylinders, line targets for geometrical evaluation including close range (dead zone) resolution, axial and lateral resolution are prepared for scanning. The phantom is designed to allow scanning from all four side walls.



Gray Scale



String target

DESCRIPTIONS

SPECIFICATIONS

Size: 19 x 22 x 7 cm
7.6 x 8.8 x 2.8 in.

Weight: 3.6kg / lbs

SET INCLUDES

- 1 phantom
- 1 carrying case

Sonic velocity: 1432m/ sec at 25 degrees C
Attention coecient: 0.57 dB/ cm MHz at 25 degree C
Acoustic impedance: 1.38 rayl at 25 degree C

MATERIALS

Urethane elastomer, acryl, nylon
Latex free

RECOMMENDED DEVICES

-

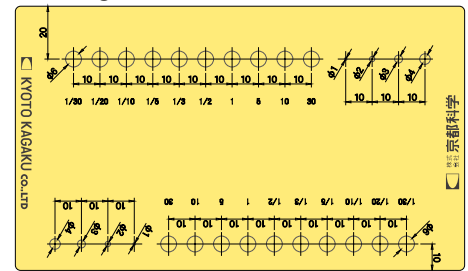
US-4

Breast Ultrasound QA Phantom

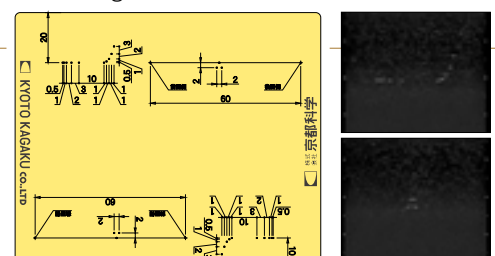
Ensure highly detailed images for reliable breast cancer examinations

Ultrasound QA phantom for high precision imaging in the high frequency sonography around 10 MHz that is required in breast examination. For monthly basic quality check of ultrasound images, as well as longer term quality assurance to maintain consistency of the performance of scanners and transducers.

Mass targets block (contrast resolution)



Mass targets block (contrast resolution)



Mass targets block

Sonic velocity: 1434 m/sec at 25 degrees C
Attention coecient: 0.59 dB/ cm MHz at 25 degrees C
Acoustic impedance: 1.37 rayl at 25 degree C
Integrated target: gray scale targets/ cyst targets

Dot targets block

Sonic velocity: 1442 m/sec at 25 degrees C
Attention coecient: 0.73 dB/cm MHz at 24 degrees C
Acoustic impedance: 1.39rayl at 25 degree C
Integrated target: dot targets/ 45 degrees line target

DESCRIPTIONS

SPECIFICATIONS

Size: mass targets block phantom size: 18 x 7.5 x 11 cm / 7.2 x 3 x 4.4 inch
dot targets block phantom size: 13.5 x 7.5 x 11 cm / 5.4 x 3 x 4.4 inch

SET INCLUDES

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

MATERIALS

Urethane elastomer, acryl, nylon
Latex free

Weight: Mass 1.3kg / 2.7lbs
Dot 1.0kg / 2.2lbs

Human Anatomy Model Mr. A1A has been reborn!

The original A1A anatomical model was produced in 1964. At that time, other models in the market used to be stumpy, bulky and unrealistic. A1A was created to be an innovation with the most realistic, more close-to-human anatomies. As there was no preceding example available back then, one of our employees at that time stood in as its living model. With his physically toned right arm, the athletic pose of A1A was adapted. Thanks to his contribution, A1A had since become our long-standing seller. As of 2018, A1A has been reborn with its new and improved features.



A1A

NEW

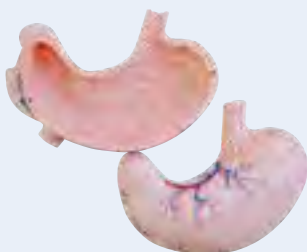
Human Anatomy Torso (dual sex)

My changes
in 2018!

Heart, frontal lungs and frontal diaphragm can be taken apart so that cross-sections and connecting organs can be seen.

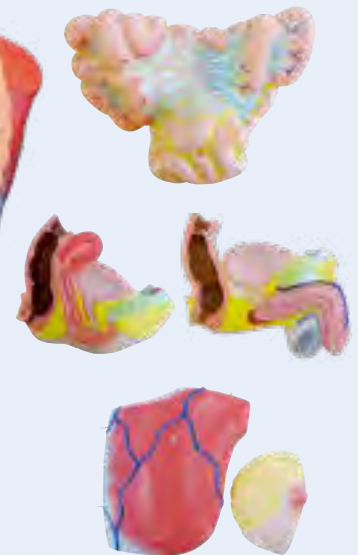


The stomach can be opened to see the inner structures.



Improvements to the abdominal cover make the handling of the model much safer.

Improvements to shape, cross-sections, colors and materials make anatomical understanding much easier.



DESCRIPTIONS

SPECIFICATIONS

Size: W60 x D34 x H110 cm
W23.6 x D13.4 x 43.3 inch

MATERIALS

Soft resin
Latex free

A2D

Dissectible Anatomy of Arm (parts)

90 anatomical anecdotes are included in this model. Made of rigid plastic and is 27.2 inch high. It is mounted on a base with a supporting rod.



A3D

Dissectible Anatomy of Leg (parts)

This model made of rigid plastic is 36.2 inch high and can be separated into 27 parts. This model is mounted on a base, and the principal nerves and blood vessel systems are replicated in detail.



TM90-2

Junior Torso -Advanced Model-

This model is a very useful study aid for students and is a great illustration of the digestive system. It is made of flexible plastic, separates into 18 parts and is approximately 33.6 inches tall.



M42

Muscles of Arm

This model is a great tool for visualizing the functions of the joint and muscle of the elbow. The state of the muscle can be observed when the arm is stretched and bent.



A144

Nerves and Vessels of Arm

A full replica of the arm's blood vessels and nerves. A great addition to education regarding intravenous procedures.



Circulatory System Model Life-sized

NEW



A61

Circulatory System Model

With arteries on the left and veins on the right, accurate relationship between the circulatory system and organs is displayed on this 47 inch model.



A62

Circulatory System with Skelton Model

This 47 inch, plastic model is mounted on a metal stand and replicates anatomies such as the cochlea, skeleton, blood vessels, brain, heart, liver, kidney and spleen.



Circulatory System Model Life-sized and Scaled versions



A100

Nervous and Circulatory System

A thorough and convenient replica, with the circulatory system on the left and the nervous system on the right. Approximately 54 in. tall.



A25

Nervous System Model

The left half of the skull reveals the brain and the medulla oblongata. The nerves are fully shown, and the model is mounted on a metal stand for a total height of 51.2 in.



A27

Brain with Color Coded Cortical Area

This model is approximately 19 inches tall. The right cerebral hemisphere is painted in different colors into the cortical areas.



A120

Cerebral Arteries

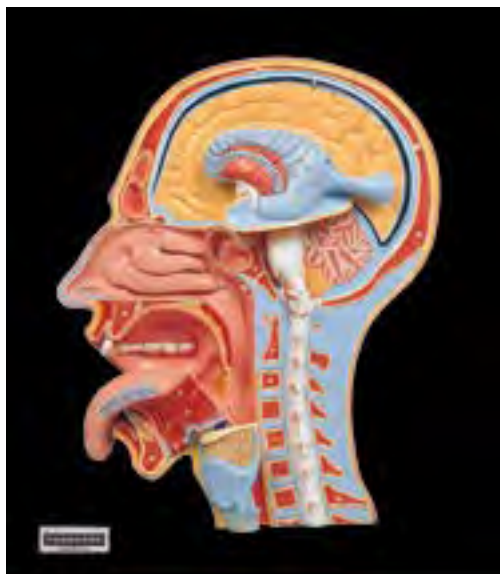
This life-size replica of the brain arteries spreads over and into the cerebrum region. The cerebrum and the spinal bulb are accurately depicted. Model on a metal stand.



A107

Head Cross Section Model

Model separates into six pieces and displays the brain, nasal cavity, tongue and larynx in detail. Composed of rigid plastic.



A54

Nasal Cavity Model

A model for the respiratory system with the anterior and dorsal aspect. The nasal cavity is cut on a sagittal plane to show its detailed structure. Made of plastic, mounted on a stand.



A106

Tongue and Larynx Model

This model is approximately 13.2 inches tall. Details of the tongue, larynx, jawbone, hyoid bone, muscles blood vessels and nerves are shown.



A123A

Bronchus, Pulmonary Vessels Model

This model was created under the guidance of Dr. Rikuto Hatanaka at the Kyoto Katsura Hospital and accurately replicates the positions and structures of the organs three-dimensionally.



A48-1

Bronchus and Pulmonary Vessels Model

This model shows in detail the relation between the bronchus, the pulmonary arteries, and veins which clearly shows how the arteries and veins are distributed to the right and left lungs.



A59

Heart Anatomy B

This life-sized heart is dissectible into 6 parts. The esophagus, trachea and aorta descending aorta are removable. Comes with anatomical anecdotes. Approx 10 inches.



A142

Coronary Artery and Conducting System Model

This model replicates the location of the impulse conducting system and coronary arteries in the human heart. It is useful for primary guidance in scientific education.



A69

Liver, Kidneys and Spleen Model

Life-size model, mounted on a base. Three organs are represented in visceral positions showing the principal blood vessels and nerves.



A71

Intestines Model

This model demonstrates a posterior view of the digestive system. The mesenteric vessels are shown in three parts: the cecum, the jejunum and the ileum. The model is composed of plastic.



A32

Tract and Reflection of Spinal Nerve Model

This pair forms a set that illustrates the nervous system. One shows the reflection of the spinal nerve, and the other shows its main tract.



A136

Coronary Arterial Model

Placed in a transparent case with angular gradations. A knob on the top rotates the model to demonstrate.



PRODUCT CATALOG 2019-
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70th Anniversary

Thanks to the support of our customer and stakeholders, on June 8, 2018, we are celebrating our 70th anniversary. We would like to express our deepest gratitude to all of you who have supported us throughout these years.

Formerly known as “the specimen’s division” of Shimadzu Corporation, Kyoto Kagaku was founded on June 8, 1948.

In line with our company philosophy, “We, Kyoto Kagaku, aim to be as one with our community.”, we have contributed to our community through education, culture and welfare. Now in the wake of medical advancement, our activities are widely involved in the field of medical, nursing, welfare education to support healthcare professionals throughout the world.

Upon the occasion of our 70th anniversary, we wish to advance toward the world to achieve further growth and prosperity. We intend to preserve the important tradition built by our predecessors, develop our strengths, respond to the changes of the times and create a foundation for new growth.

We sincerely wish you all your continued guidance and encouragement in the future.

Sincerely,



1st June, 2018
Tamotsu Katayama
President
Kyoto Kagaku Co., Ltd

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