



Simulators and Ultrasound Phantoms

# SU-3



# PRODUCT CATALOG SU-3

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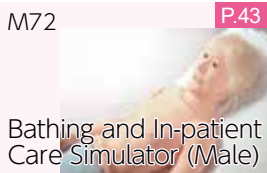



Patient Care

MW25 **P.38-**  
  
 Patient Care Simulator Yaye


MW26 **P.40-**  
  
 Basic Patient Care Simulator Keiko

MW22 **P.42**  
  
 Patient Care Simulator Cherry

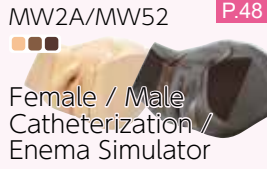
M72 **P.43**  
  
 Bathing and In-patient Care Simulator (Male)

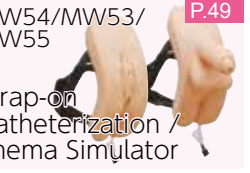
MW8 **P.44**  
  
 Tube Feeding Simulator (NG, OG and PEG)

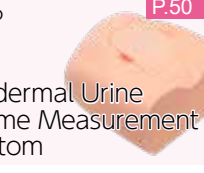
US-20 **P.45**  
  
 Ultrasound Guided Tube Feeding Phantom


M85 **P.46**  
  
 Airway Suction Trainer

MW58/MW59 **P.47**  
  
 Male / Female Suprapubic Catheter Care Simulator

MW2A/MW52 **P.48**  
  
 Female / Male Catheterization / Enema Simulator

MW54/MW53/MW55 **P.49**  
  
 Strap-on Catheterization / Enema Simulator


US-16 **P.50**  
  
 Intradermal Urine Volume Measurement Phantom

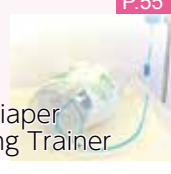
US-23 **P.51**  
  
 Rectal and Bladder Ultrasound Phantom


MW72 **P.52**  
  
 Strap-on Ostomy Care Trainer

MW63 **P.53**  
  
 Pressure Sores Simulator

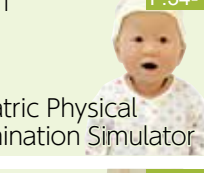
M66 **P.54**  
  
 Medical Foot Care Simulator

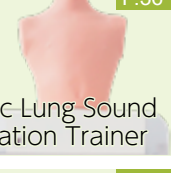
MW1 **P.54**  
  
 Pitting Edema Simulator


MW23 **P.55**  
  
 Adult Diaper Changing Trainer

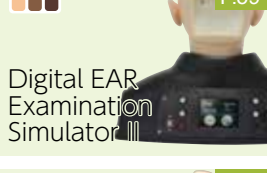
MW29 **P.56**  
  
 Oral Care Simulator Advanced

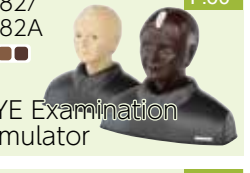
Physical Examination

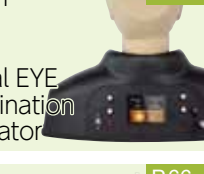
MW71 **P.34-**  
  
 Pediatric Physical Examination Simulator

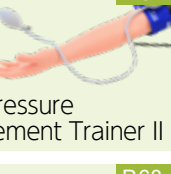
MW57 **P.36**  
  
 Pediatric Lung Sound Auscultation Trainer

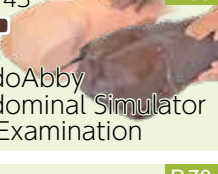
MW12 **P.58**  
  
 EAR Examination Simulator II

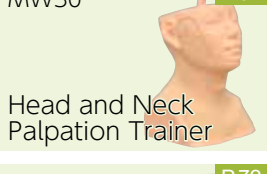
**P.59**  
  
 Digital EAR Examination Simulator III

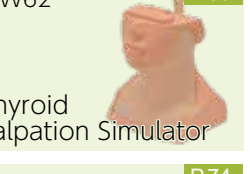
M82/M82A **P.60**  
  
 EYE Examination Simulator

MW61 **P.61**  
  
 Digital EYE Examination Simulator


MW7B **P.62**  
  
 Blood Pressure Measurement Trainer II


MW43 **P.63**  
  
 AbdoAbby Abdominal Simulator for Examination

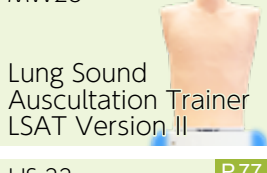
MW30 **P.64**  
  
 Head and Neck Palpation Trainer

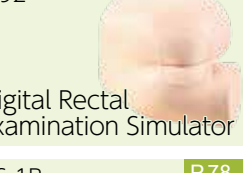
MW62 **P.65**  
  
 Thyroid Palpation Simulator

M55 **P.66-**  
  
 Physical Assessment Simulator Physiko

M55B **P.68-**  
  
 Physical Assessment Simulator Physiko Plus

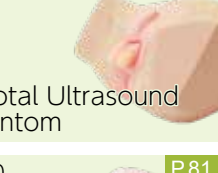
MW10 **P.70-**  
  
 Cardiology Patient Simulator K Version II

MW28 **P.72-**  
  
 Lung Sound Auscultation Trainer LSAT Version II

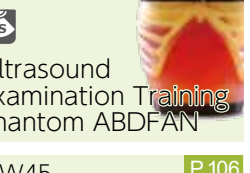
M92 **P.74**  
  
 Digital Rectal Examination Simulator

M53B **P.74**  
  
 Prostate Examination Simulator

MW20 **P.75**  
  
 Prostate and Rectal Simulator


US-11 **P.76**  
  
 Scrotal Ultrasound Phantom

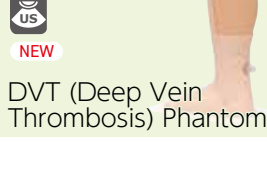
US-22 **P.77**  
  
 Dual Modality Human Abdomen Phantom (CT, Ultrasound)

US-1B **P.78**  
  
 Ultrasound Examination Training Phantom ABDFAN

US-1 **P.79**  
  
 Ultrasound Examination Training Phantom ECHOZY

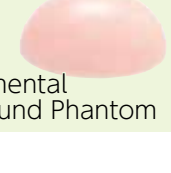
MW24 **P.80**  
  
 3D Colonoscope Training Simulator NKS


M40 **P.81**  
  
 Colonoscope Training Simulator

US-21 **P.82**  
  
 DVT (Deep Vein Thrombosis) Phantom

MW45 **P.106**  
  
 Nasopharyngeal Swab Collection Simulator

US-24 **P.109**  
  
 Elementary Cubic Phantom BLACKCUBE

US-18 **P.110**  
  
 Fundamental Ultrasound Phantom

US-17 **P.110**  
  
 Rheumatoid Phantom



M95 P.33  Simulator Pediatric IV Hand	M43D P.33  Pediatric Lumbar Puncture Simulator II	MW9 P.83  Peripheral Venous Catheter Placement Simulator	MW49 P.84  Simulator Intravenous ARM III	MW50 P.85  Strap-on Venipuncture Simulator	Clinical Skills -Injection/Puncture-	
M94 P.85  Intradermal Injection Training Simulator	M67C P.86  Strap-on Intramuscular Injection Trainer	MW64 P.86  Vaccination Training Set	M74 P.87  Gluteus Maximus Injection Simulator	M99 P.88  Arterial Puncture Training Wrist		
MW3 P.89  Epidural Anesthesia Simulator	M43B/ M43B-B P.90  Lumbar Puncture Simulator IIA	M43E P.91  Ultrasound Compatible Lumbar Puncture/ Epidural Simulator	MW4/MW4A/ MW15/MW17 P.92-  Ultrasound-Guided Thoracentesis/ Pericardiocentesis Simulators	M93C P.94  CVC Insertion Simulator III		
M93UB P.95  CVC Insertion Simulator II	MW18 P.96  Ultrasound-Guided PICC Training Simulator	M93B P.97  Introductory Ultrasound Training Block REAL VESSEL				
M57B P.97  Suture Evaluation Simulator	MW16 P.98-  Laparoscopic Suture Simulator -Assessment System-	MW56 P.100  Laparoscopic Suture Simulator LaparoCube	M83 P.101  Suture Practice Trainers -Full set-	US-3 P.102  Abdominal Intraoperative & Laparoscopic Ultrasound Phantom IOUSFAN		Clinical Skills -Suture-
US-5 P.103  FAST / Acute Abdomen Phantom FAST/ER FAN	MW11 P.104-  Difficult Airway Management Simulator -Assessment System-	MW13 P.106  Difficult Airway Management Simulator -Training Model-	MW14 P.107  Difficult Airway Management Simulator -Demonstration Model-	MW19 P.107  Difficult Airway Management Simulator for Bronchofiberscopy		Clinical Skills -ER-
MW60 P.108  Tracheostomy Simulator						
P.111- Anatomical Models						

Legend



allows for ultrasound imaging



skin tone variation is available

# A Range of Innovative Training Simulators

Women's Health / Pre-Pregnancy Period	Pregnancy Period	Labor
<p><b>NEW</b></p> <p>MW65 Series ▶ Cervical Cytology Module (Pap smear)</p>	<p>US-7α ▶ Fetus Ultrasound Examination Phantom SPACE FAN-ST</p>	<p><b>NEW</b></p> <p>MW65 Series ▶ Advanced Obstetrics and Birthing Simulator</p>
<p><b>NEW</b></p> <p>▲ MW75 Pelvic Organ Prolapse Trainer Utena</p>	<p>US-10,10A-D ▼ Female Pelvic Ultrasound Phantom</p>	
<p>◀ M44 Visual-Tactile Breast Examination Simulator</p>	<p>MW34 ▲ Obstetric Examination Simulator</p>	
<p>◀ M44 Visual-Tactile Breast Examination Simulator</p>	<p>MW35/MW36/MW40 ▲ Cervical Assessment Simulator / Vaginal Delivery Assistance Simulator / Obstetric Training Simulator -complete set-</p>	
<p>◀ M44 Visual-Tactile Breast Examination Simulator</p>	<p>US-9 ▼ Ultrasound-Guided Breast Biopsy Phantom</p>	<p>MW48 ▶ Full Perinatal Patient Care Simulator Hana</p>

## Innovative Features

Delivery assistance

Standard ↔ Challenging ↔ Realistic

Fetal head rotation

Difficulty level options

- Wide
- Normal
- Narrow

Handle

MW65
MW65
MW36 / MW40

# from Pre-pregnancy Period to Neonatal Period

Period

Postpartum Period

Neonatal Period

MW65 Series ▶  
Postpartum Uterine Palpation Module



MW65 Series ▲  
Cesarean Section Unit

MW54 ▲  
Strap-on Catheterization / Enema Simulator



MW33 ▲  
ELBW Infant Simulator

MW21B ▲  
N CPR Simulator Plus II



MW32 ▼  
N CPR Simulator

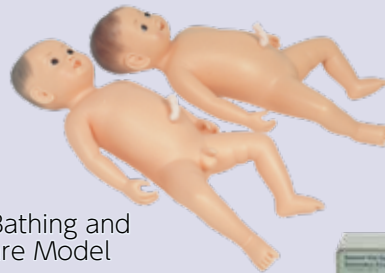
M95 ▶  
Simulator Pediatric IV Hand



M43D ▶  
Pediatric Lumbar Puncture Simulator II



M59/M63 ▶  
Newborn Bathing and Nursery Care Model



M58 ▶  
Newborn Vital Signs Examination Simulator



US-13 ◀  
Infant Hip Sonography Training Phantom



PH-50B ▶  
Newborn Whole Baby Phantom PBU-80



US-13 ▲  
Ultrasound Neonatal Head Phantoms



MW37 ▶  
Perineorrhaphy Simulator



MW38 ▲  
Uterine Involution Assessment Simulator

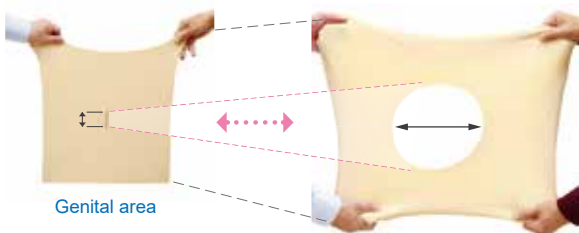


Material offers repeated training

Durable

Elastic

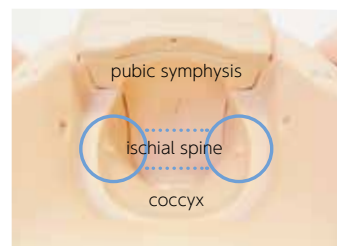
Resilient



Observation and anatomical understanding

Accurate anatomy

Landmarks



MW36 / MW40



MW65



US-10 US-10A US-10B US-10C US-10D



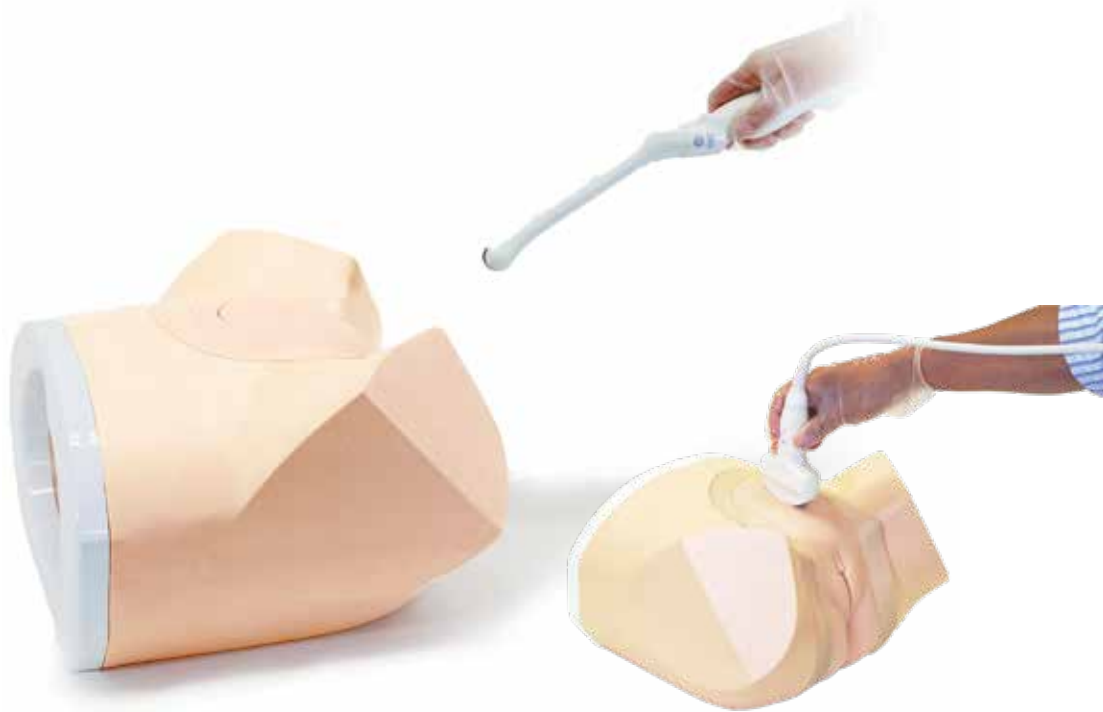
# Female Pelvic Ultrasound Phantom

**Practice both transvaginal and transabdominal ultrasound procedures in one**

### Product Supervision

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

**Newly added 10-week- pregnancy unit and IUD unit supports thorough training in Obs/gyn ultrasound**



### FEATURES

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

### SKILLS

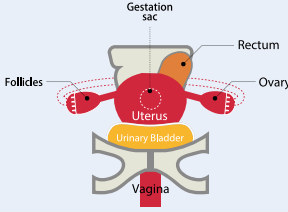
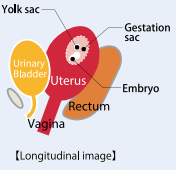
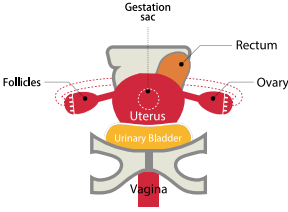
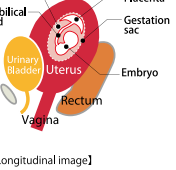
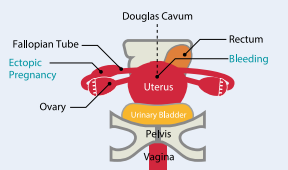
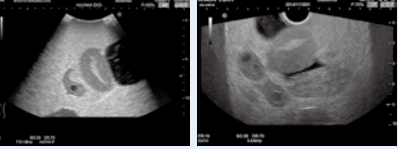
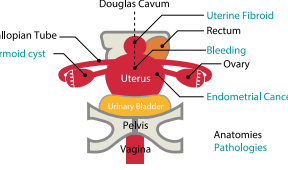
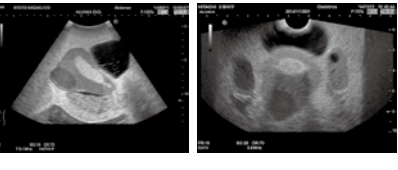
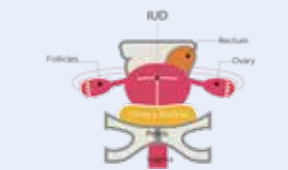
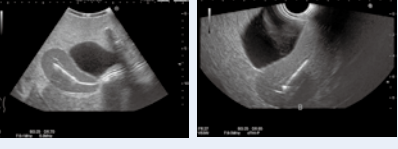
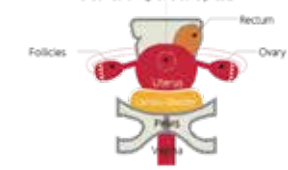
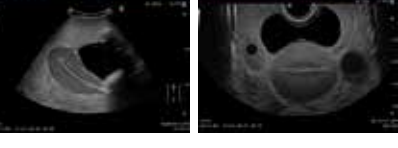
- | Handling and manipulation of transvaginal and transabdominal transducers
- | Interpretation of sonogram
- | Visualization and localization of anatomies and pathologies

### DESCRIPTIONS

#### SET INCLUDES

	US-10A/41909-100	US-10C/41909-110	US-10/41909-000	US-10B/41909-200	US-10D/41909-210
	Female Pelvic Ultrasound Phantom (3units/7w)	Female Pelvic Ultrasound Phantom (3units/10w)	Female Pelvic Ultrasound phantom (2 units)	Obstetric Pelvic Ultrasound Phantom (7w)	Obstetric Pelvic Ultrasound Phantom (10w)
lower torso manikin	✓	✓	✓	✓	✓
ultrasound pathology unit	✓	✓	✓	—	—
ultrasound 7-week pregnancy unit	✓	—	—	✓	—
ultrasound 10-week pregnancy unit	—	✓	—	—	✓
ultrasound ectopic pregnancy unit	✓	✓	✓	✓	✓
IUD unit	—	—	—	—	—
storage case	2	2	1	1	1
talcum powder	✓	✓	✓	✓	✓
syringe	✓	✓	✓	✓	✓
instruction manual	✓	✓	✓	✓	✓

**KEY FEATURES**

Five variations of training sets	Anatomy, findings and pathology	US-10A	US-10C	US-10	US-10B	US-10D
Normal pregnancy (7-week)	  <p>Labels: Gestation sac, Rectum, Ovary, Follicles, Uterus, Urinary Bladder, Vagina, Embryo, Yolk sac, Gestation sac, Rectum, Embryo, Urinary Bladder, Vagina. [Longitudinal image]</p>	✓	—	—	✓	—
Normal pregnancy (10-week)	  <p>Labels: Gestation sac, Rectum, Ovary, Follicles, Uterus, Urinary Bladder, Vagina, Embryo, Yolk sac, Gestation sac, Rectum, Embryo, Urinary Bladder, Vagina, Placenta, Umbilical cord. [Longitudinal image]</p>	—	✓	—	—	✓
Ectopic pregnancy unit	  <p>Labels: Douglas Cavum, Fallopian Tube, Ectopic Pregnancy, Rectum, Ovary, Uterus, Urinary Bladder, Pelvis, Vagina, Bleeding.</p>	✓	✓	✓	✓	✓
Pathological unit	  <p>Labels: Douglas Cavum, Fallopian Tube, Dermoid cyst, Uterine Fibroid, Rectum, Bleeding, Ovary, Endometrial Cancer, Uterus, Urinary Bladder, Pelvis, Vagina, Anatomies Pathologies.</p>	✓	✓	✓	—	—
IUD unit	  <p>Labels: IUD, Follicles, Rectum, Ovary, Uterus, Urinary Bladder, Pelvis, Vagina.</p>	—	—	—	—	—
<b>NEW</b> Follicular phase unit	  <p>Labels: endometrium (proliferative phase), Rectum, Ovary, Follicles, Uterus, Urinary Bladder, Pelvis, Vagina.</p>	—	—	—	—	—

**SPECIFICATIONS**

Torso size: W34 x D33 x H24 cm  
W13.5 x D13 x H9.5 in.

weight: 7.2kg / 15.9 lbs

**DESCRIPTIONS**

**MATERIALS**

Soft resin, Polyurethane elastomer  
Latex free

**REPLACEMENT PARTS**

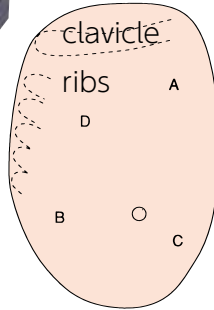
- 41909-030 ultrasound pathology unit
- 41909-040 ultrasound ectopic pregnancy unit
- 41909-050 ultrasound first trimester pregnancy unit (7W)
- 41909-060 skin for US-10 / 10A / 10B
- 41909-070 ultrasound first trimester pregnancy unit (10W)
- 41909-080 IUD unit
- 41909-090 follicular phase unit

\* 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

- Four breast lumps (tumor with dimple, tumor with skin depression, fibroadenoma and mastopathy)
- Bony landmarks for palpation: clavicle and ribs
- 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

### SPECIFICATIONS

Size: W20 x D28 x H13 cm  
W7.9 x D11 x H5.1 in.  
Weight: 1.3kg / 2.9lbs

### SET INCLUDES

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

### MATERIALS

Latex free  
Soft resin

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

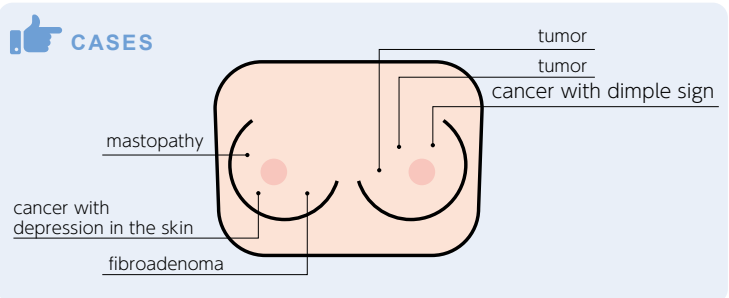
Product Supervision  
Tsuneaki Senoh, Prof.,  
Kurashiki Medical Center

### FEATURES

- Six signs of breast tumors
- An ideal tool for breast self-examination education
- Realistic size, appearance and texture

### SKILLS

- Tactile breast examination
- Breast self-examination



## DESCRIPTIONS

### SPECIFICATIONS

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

Weight: 1.05kg / 2.3lbs

### SET INCLUDES

- 1 breast model with the strap belts
- 1 talcum powder
- 1 storage case
- 1 instruction manual

### MATERIALS

Soft resin  
Latex free



US-6



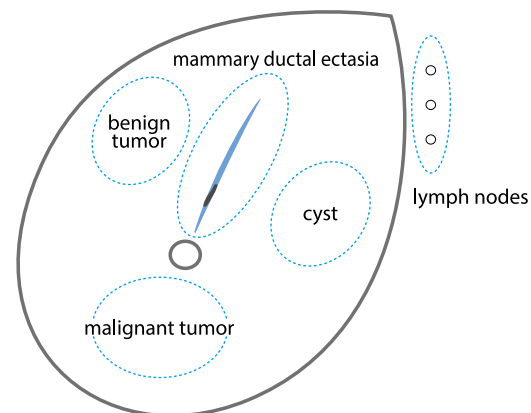
# Breast Ultrasound Examination Phantom BREAST FAN

## 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



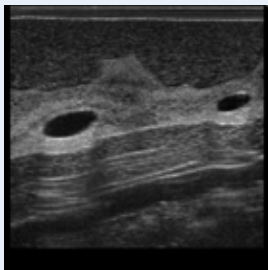
### FEATURES

- 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

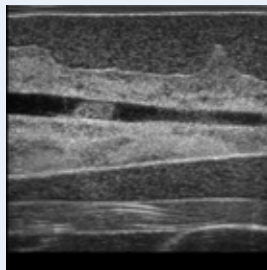
### SKILLS

- | 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

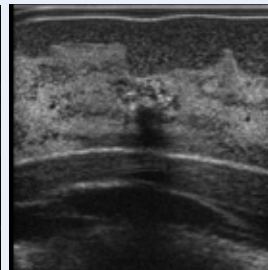
### IMAGES



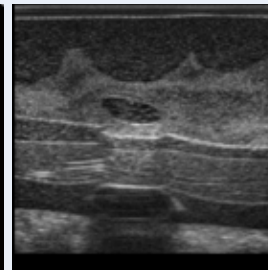
Cyst



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: W26 x D38 x H11 cm  
W10.2 x D15 x H4.3 in.

Weight: 7kg / 15.4lbs

#### MATERIALS

Polyurethane elastomer  
Latex free

#### SET INCLUDES

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

\* Ultrasound scanner is not included.

US-9



# Ultrasound-Guided Breast Biopsy Phantom

## Basic (Transparent)

Hand-eye coordination



## Advanced (Opaque)

Acquisition of skills in safe and reliable needle biopsy



## 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

### SKILLS

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

### DESCRIPTIONS

#### SPECIFICATIONS

Size: 16 dia. x H8 cm / 6.3 dia. x H3.2 in.

Weight: 0.75kg / 1.7 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

#### SET INCLUDES

- |   |                    |
|---|--------------------|
| 1 | pair of phantoms   |
| 1 | instruction manual |

\* Ultrasound scanner is not included.

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, typically around 10 MHz, required in breast examination  
For monthly basic quality check of ultrasound images along with longer term quality assurance to maintain consistency in performance of scanners and transducers



### Mass targets block

Sonic velocity: 1434 m/sec at 25°C  
Attenuation coefficient: 0.59 dB/cm MHz at 25°C  
Acoustic impedance: 1.37 rayl at 25°C  
Integrated targets: gray scale targets/ cyst targets

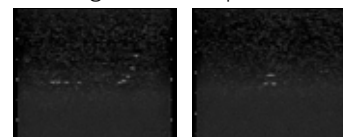
### Mass targets block (contrast resolution)



### Dot targets block

Sonic velocity: 1442 m/sec at 25°C  
Attenuation coefficient: 0.73 dB/cm MHz at 25°C  
Acoustic impedance: 1.39 rayl at 25°C  
Integrated targets: dot targets/ 45 degrees line target

### Dot targets block (spatial resolution)



### DESCRIPTIONS

#### SPECIFICATIONS

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

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

#### SET INCLUDES

- |   |                    |
|---|--------------------|
| 1 | mass targets block |
| 1 | dot targets block  |
| 1 | thermometer        |
| 1 | storage case       |
| 1 | instruction manual |

#### MATERIALS

Urethane elastomer,  
acryl, nylon  
Latex free

US-4B

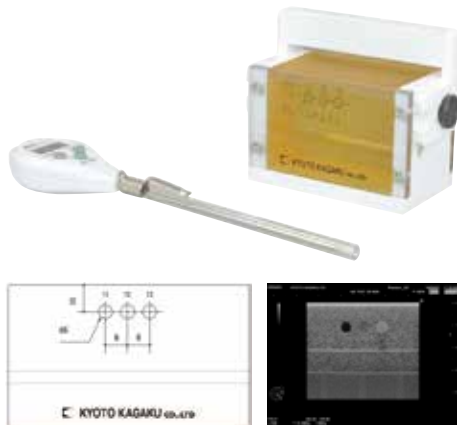


NEW

# Small Parts Basic QA Phantom

Excellent for the routine maintenance of image quality in ultrasonography as well as the aging of devices and transducers

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



### FEATURES

- 1 | Compact size allows imaging in a single scan, saving time and simplifying the process
- 2 | To ensure the verticality of the entrance beam, two horizontal wires are embedded and the supporting guide frame secure the transducer in its home position for testing
- 3 | For monthly basic quality test along with longer term quality assurance to maintain consistency in performance of scanners and transducers
- 4 | Longevity and stability of phantom material ensured by 5-year-testing process
- 5 | To maintain the internal temperature of the phantom (23° C to 26° C), a thermometer is provided

### SKILLS

| Image quality and aging of the transducer

### ACOUSTIC FEATURES

Sonic velocity: 1434(±1) m/ sec at 25°C  
Attenuation coefficient: 0.59 dB/ cm MHz at 25°C  
Acoustic impedance: 1.37 rayl at 25°C  
Integrated targets: Gray scale targets in three steps, at 10mm depth

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W10.3 x D5 x H8 cm  
W4 x D1.97 x H3.15 in.  
Weight: 0.33kg/ 0.72lbs

#### SET INCLUDES

- 1 phantom
- 1 thermometer
- 1 Instruction manual

#### MATERIALS

Urethane elastomer,  
acryl,  
nylon Latex free

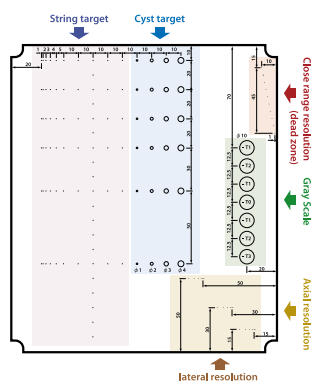
US-2



# 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: W19 x H22 x D7 cm  
W7.6 x H8.8 x D2.8 in.

Sonic velocity: 1432m/ sec at 25 degrees C  
Attenuation coefficient: 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

#### SET INCLUDES

- 1 phantom
- 1 carrying case



MW48



# Full Perinatal Patient Care Simulator Hana

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

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



	11429-200 Maternity nursing package for MW48	11429-100 perinatal package for MW48
11429-110	○	○
11425-140	—	○
11425-150	—	○
11425-130	○	○
11417-020	—	○
11425-120	○	○

### FEATURES

- 1 | Interchangeable abdomen to simulate perinatal examination, ultrasound examination of 23-week-fetus, cervical examination, labor, perineal tear and puerperal

### POINTS



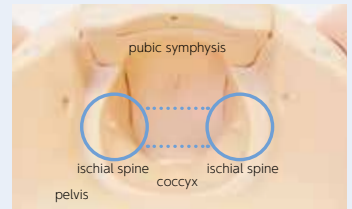
One-touch interchangeable parts



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
- Normal breast and nipple assessment
- Chest compressions
- Epidural placement
- IV route care (dorsal vein of left hand)
- 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)

## Perinatal examination

### During pregnancy

#### Perinatal examination 11429-110 Obstetric Examination set for MW48

- | 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

##### 11425-140 Ultrasound Examination set for MW48

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



### Childbirth

#### Cervical examination 11425-150 Cervical Assessment set for MW48

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



#### During labor 11425-130 Vaginal Delivery assistance set for MW48

- | 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 11417-020 Genitalia unit for MW48 (perineorrhaphy)

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



### Puerperal

#### Puerperal assessment 11425-120 Uterine Involution Assessment set for MW48

- | 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 in. Weight: 20 kg / 44.1 lbs

### SET INCLUDES

\*Components for basic manikin. Training modules are to be added according to requirements

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

### REPLACEMENT PARTS

11229-050	lubricant for training models	11406-040	wig
11251-030	2 shoulder IM pads	11415-030	genitalia unit
11416-040	5 velamen sheets	11415-010	cervical dilation inserts
11416-030	10 umbilical cords for omphalotomy	11416-020	placenta
11417-010	2 genitalia insert		
11415-040	lubricant (refill, 500ml)		
11415-050	lubricant (with bottle, 500ml)		

### MATERIALS

Soft resin  
Latex free

MW34



# Obstetric Examination Simulator

Simulate prenatal checkups using our 39 to 40 week pregnancy simulator  
All-in-one simulator: Palpation, Auscultation, and Measurement



## 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 in. Weight: 11.2 kg / 24.7 lbs

### SET INCLUDES

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

### MATERIALS

Soft resin  
Latex free

### REPLACEMENT PARTS

11414-010 skin cover for MW34

### SET VARIATION

11414-999 MW34 CE light skin tone  
11414-999-D MW34 CE dark skin tone  
11414-999A MW34 non CE light skin tone  
11414-999A-D MW34 non CE dark skin tone



**KEY FEATURES**

Palpation

**Palpation of 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

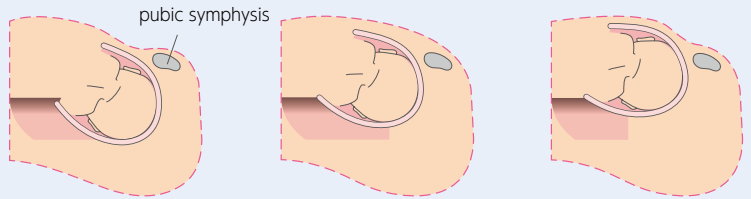


Fourth maneuver



■ **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



Distantia cristarum



Distantia trochanterica



External oblique diameter

MW65



NEW

# Advanced Obstetric and Birthing Simulator

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

### Product Supervision

Dr. MAKI Jota, Assistant Professor, Department of Obstetrics and Gynecology, Graduate School of Biomedical Sciences, Okayama University



Vacuum extraction



Management of shoulder dystocia

### FEATURES

- 1 | Realistic reproduction of the birth canal allows for pelvic examination in accordance with the progress of delivery
- 2 | The ability to perform various techniques (McRoberts position, Woods screw method, etc.) in fetal malposition and shoulder dystocia makes it ideal for a variety of workshops and training courses

### SKILLS

#### Delivery

- | Pelvic examination
- | Normal delivery
- | Delivery of placenta and umbilical cord
- | Reproduction and handling of shoulder dystocia and fetal malposition
- | Vacuum extraction
- | Forceps delivery
- | Breech delivery
- | Delivery of the placenta

#### Treatment of the fetus

- | Umbilical cord entanglement
- | Umbilical cord clamping and cutting
- | Palpation of the anterior/posterior fontanels
- | Suctioning procedures through mouth and nose

#### Options (to be released)

- | By combining the modules listed to the right, a variety of exercises can be conducted

### KEY FEATURES

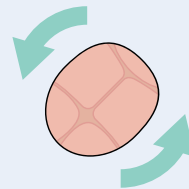
#### Checking & Understanding

- | The mother's abdomen can be removed in order to check anatomy and properly understand delivery
- | Structures are anatomically-accurate and reproduced faithfully to the human body



#### Fetal Rotation

Fetal head rotation occurs by advancing the fetus through the pelvic canal



#### Difficulty Change

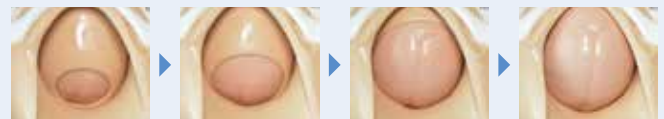
Bony birth canal has three interchangeable size options



#### Unparalleled realism of cervical dilation

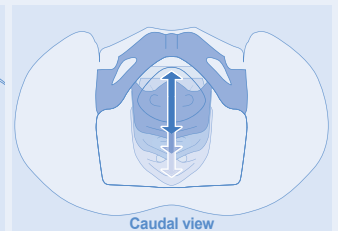
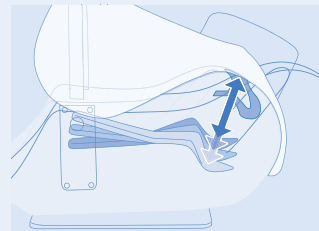
Cervix dilates realistically to allow for labor progress assessment training

	Cervical dilation	Cervical effacement	Descent of fetal head	Stiffness of cervix	Cervical position
MW65 features	○	○	○		○



#### Simulates shoulder dystocia scenarios for internal maneuver training

Ideal for training courses with a variety of possible scenarios including abnormal fetal position or presentation, shoulder dystocia, and maneuvers such as McRoberts position and Wood screw maneuver



Combination of modules offer a variety of skills training

Postpartum Uterine Palpation Module



Palpation of the postpartum uterus and training on abnormality



Postpartum Uterine ①



Postpartum Uterine ②

SKILLS

- | Postpartum uterine palpation
- | Manual removal of placenta
- | Reproduction of uterine inversion※
- | Bimanual compression※
- ※Only for Postpartum Uterine ②

Uterine Placenta



Uterine cavity

SPECIFICATIONS

Postpartum Uterine Palpation Module  
 Size: W30 x D20 x H10 cm / W11.8 x D7.9 x H3.9 in. (Postpartum Uterine ①)  
 W30 x D20 x H15 cm / W11.8 x D7.9 x H5.9 in. (Postpartum Uterine ②)  
 Weight: 1.5kg / 3.3lbs  
 fundus uteri:  
 16.5cm / 6.5 in. (Postpartum Uterine ①)  
 23.5cm / 9.3 in. (Postpartum Uterine ②)

MATERIALS

Soft resin  
 Hard resin

SET INCLUDES

Postpartum Uterine Palpation 1 Module:  
 Postpartum Uterine ① 1 /  
 Postpartum Uterine ② 1  
 Placental remnants 1

Cervical Cytology Module (Pap smear)

Training for Cervical Cytology and Internal Pelvic Examinations during the prepartum period



FEATURES

- 1 | Cytological examination procedures can be simulated using actual instruments
- 2 | The descent of the infant's head can be reproduced by turning a screw to perform the palpation procedure

SKILLS

- | Pap smear
- | Palpation of the descending fetus in the prepartum period

SPECIFICATIONS

Size: W18 x D25 x H15 cm / W7.1 x D9.8 x H5.9 in.  
 Weight: 1.5kg / 3.3 lbs

MATERIALS

Soft resin  
 Hard resin

SET INCLUDES

Uterine Module: 1

Fetus Ultrasound Examination Module



Attachment to set the ultrasound phantom with 23-week phantom "SPACEFAN-ST" for antenatal examination scenarios in second trimester



\*ultrasound phantom is not included in the set.

Cesarean Section Unit

Simulated uterus wall with multiple layers developed in collaboration with active obstetricians allow for realistic training in incision and suture of the uterus



SKILLS

- | Incision for Cesarean section
- | Closure of the uterus

DESCRIPTIONS

SPECIFICATIONS

Maternal body (with the skin cover)  
 Size: W52 x D50 x H35 cm (Body)  
 W20.5 x D20 x H14 in.  
 Weight: 12kg (with the fetus and placenta)  
 26.5lbs

MATERIALS

Soft resin  
 Hard resin

SET INCLUDES

- |   |                                 |   |                      |
|---|---------------------------------|---|----------------------|
| 1 | maternal body                   | 5 | velamen sheets       |
| 1 | skin cover                      | 1 | lubricant (500ml)    |
| 2 | clamps                          | 1 | bottle for lubricant |
| 1 | fetus                           | 1 | talcum powder        |
| 1 | placenta                        | 1 | towel                |
| 1 | umbilical cord                  | 1 | Instruction manual   |
| 3 | umbilical cords for omphalotomy |   |                      |

REPLACEMENT PARTS

- |           |                                    |
|-----------|------------------------------------|
| 11416-030 | 10 umbilical cords for omphalotomy |
| 11416-040 | 5 velamen sheets                   |
| 11415-040 | lubricant (refill 500 ml)          |
| 11415-050 | lubricant (with bottle 500 ml)     |
| 11458-010 | replacement skin cover for MW65    |
| 11458-020 | cervix unit for MW65               |
| 11458-030 | fetus for MW65                     |
| 11416-020 | placenta                           |

MW40



# Obstetric Training Simulator -complete set-

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



## FEATURES

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

## SKILLS

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

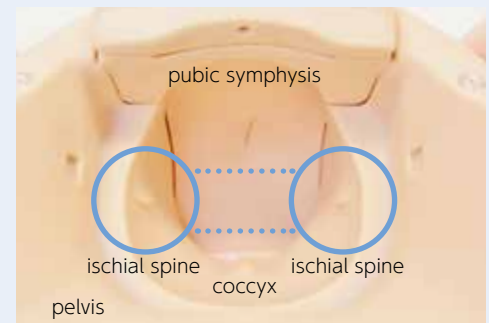
## KEY FEATURES

The external genitalia is made of innovative material that excels in elasticity, durability and 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 H33.5 cm / W29.1 x D17.3 x H13.2 in. Weight: 11.2kg / 24.7lbs

## SET INCLUDES

- 1 maternal body
- 1 genitalia unit (for pelvic examination and delivery assistance)
- 1 talcum powder
- 1 lubricant (500ml)
- 1 instruction manual
- 1 towel

## 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:

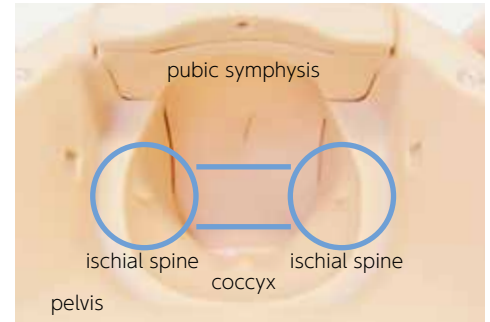
- 1 genitalia unit (for perineorrhaphy)

MW35



# 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: W74 x D44 x H33.5 cm  
W29 x D17 x H13 in.

Weight: 10.3 kg / 22.7 lbs

### SET INCLUDES

1 maternal body	1 lubricant (500 ml)
1 genitalia unit	1 talcum powder
1 vagina unit	1 instruction manual
1 set of cervical dilation inserts (5 variations)	1 towel
1 holder for the cervical dilation inserts	

### MATERIALS

Soft resin, hard plastic  
Latex free

### REPLACEMENT PARTS

11415-010	1 set of cervical dilation inserts (5 variations)
11415-040	1 lubricant (500 ml)
11415-030	1 genitalia unit (for pelvic examination and delivery assistance)

### RECOMMENDED DEVICES

-

### OPTIONAL PARTS

11416-020	placenta
11416-100	vaginal delivery module
11418-100	uterine involution module

MW36



# Vaginal Delivery Assistance Simulator

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



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

## 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 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

## 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  
W29 x D17x H13 in.

Weight: 11.2kg / 24.7 lbs

### SET INCLUDES

1 maternal body	1 talcum powder
1 genitalia unit (for pelvic examination and delivery assistance)	5 velamen sheets
1 fetus	1 lubricant (500 ml)
1 placenta	1 tray
1 umbilical cord	1 instruction manual
3 umbilical cords for omphalotomy	1 towel

### 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
11415-040	1 lubricants (500 ml)

### OPTIONAL PARTS

11417-020	genitalia unit (frame, skin)
11416-100	vaginal delivery module
11418-100	uterine involution module

MW38



# 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

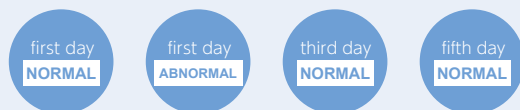
- 1 | Soft and elastic abdominal wall that permits highly realistic palpation to assess the degree of uterine involution and to measure fundal height
- 2 | Four interchangeable uterine inserts

## 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

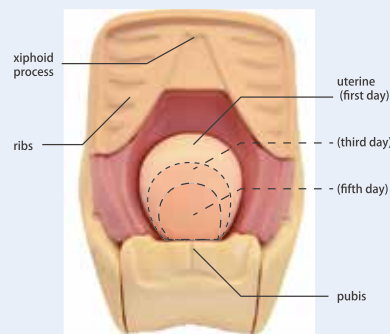


**NORMAL** (boundary between abdominal wall and uterine is hard and clear)

**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 in.

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
- 1 | towel

### 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)



MW37



# Perineorrhaphy Simulator

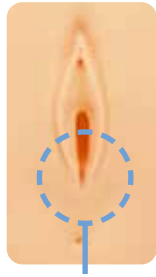
Practice first-degree perineal tear repairs repeatedly

## 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



First-degree perineal tear



## DESCRIPTIONS

### SPECIFICATIONS

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

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)

\* Suturing instruments are not included.

MW75

**NEW**

# Pelvic Organ Prolapse Trainer Utena

## Product Supervision

Kyoko Arai, Vice Dean of Nursing, Professor, School of Nursing, University of Shizuoka, Professor, Graduate school of Nursing, University of Shizuoka  
Kumi Hotta, President of NAO midwifery clinic  
Kyoko Fukushima, Assistant Professor, School of Nursing, University of Shizuoka

## Medical Supervision

Daisuke Aoki, Professor International University of Health and Welfare

For training and patient education on pessary insertion

## FEATURES

- 1 | Realistic reproduction of female genitalia to simulate organ prolapse and training on use of pessaries
- 2 | The trainer can be strapped on the body of a trainee, a SP or a full body manikin
- 3 | Table top training
- 4 | Facilitates patient education and helps with awareness raising activities

## SKILLS

- | Placement and removal of a pessaries
- | Self-management of a pessary
- | Demonstration of pelvic organ prolapse for healthcare trainees and patients
- | Placement and removal of menstrual cup



Various degrees and types of prolapse can be simulated

## DESCRIPTIONS

### SPECIFICATIONS

Size: W18 x D11 x H15 cm  
W7.25 x D4.3 x H5.91 in.  
Weight: 0.56Kg  
1.1lbs

### SET INCLUDES

- 1 pelvic organ prolapse trainer
- 1 lubricant
- 1 instruction manual

### MATERIALS

Soft resin  
Hard resin

\*Pessaries are not included in the set

US-7 $\alpha$ 

# 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 which covers landmarks for 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



Photos courtesy of Adventist University of Health Sciences

### Heart with four chambers



### UV



### Fetus Demonstration Model

Life-size fetus model for demonstration and visual understanding

## FEATURES

- 1 | The oval-shaped 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

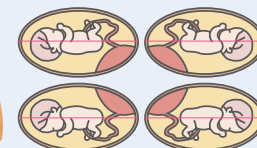
### Uterus

- | 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-shaped phantom abdomen can be set in four different positions

## DESCRIPTIONS

### SPECIFICATIONS

Torso size: W40 x D31 x H22 cm  
W15.7 x D12.2 x H8.7 in.

Weight: 7.3kg / 13 lbs

Phantom size: W30 x D21 x H15 cm  
W11.8 x D8.3 x H5.9 in.

### MATERIALS

Soft resin, Polyurethane elastomer  
Latex free

### SET INCLUDES

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

\* Ultrasound scanner is not included.

MW33



## 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 gestation, 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.

### DESCRIPTIONS

#### SPECIFICATIONS

Size: 35cm / 13.7 in.  
Head circumference: 28cm / 11 in.

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)

#### SET INCLUDES

- 1 ELBW manikin
- 1 lubricant
- 1 instruction manual

\* Instruments are not included.

MW21B



## NCPR Simulator Plus II



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 in.  
Weight: 2.6kg / 5.7 lbs

#### SET INCLUDES

- 1 newborn manikin
- 1 lubricant
- 1 instruction manual

#### MATERIALS

Soft resin  
Latex free

### 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  
11400-310 4 vein tubes for right arm  
11400-320 4 vein tubes for right leg  
11400-080 abdomen  
11388-400 10 cotton swab red  
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.

MW32



# NCPR Simulator

## Manikin that facilitates Cardio-Pulmonary Resuscitation training of a 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 auscultation
- 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

### DESCRIPTIONS

#### SPECIFICATIONS

Size: 50 cm / 19.6 in. Weight: 2.6kg / 5.7 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.



M59/M63



# Newborn Bathing and Nursery Care Model

## 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 in.

Weight: 3 kg / 6.6 lbs

Head circumference: 33 cm / 13 in.

#### SET INCLUDES

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

#### MATERIALS

Soft resin  
Latex free

#### RECOMMENDED DEVICES

-

#### REPLACEMENT PARTS

11258-080 Umbilical cord

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 in.

Weight: 1.1kg / 2.4 lbs

Power: AC100-240V

Power Consumption: 30W

#### SET INCLUDES

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

#### MATERIALS

Soft resin  
Latex free

#### RECOMMENDED DEVICES

-

#### REPLACEMENT PARTS

-

M86

## Pediatric Patient Care Model (5-6 years old)



### Life-size model of 5-6-year-old female child

Ideal training partner for pediatric nursing care

#### FEATURES

- 1 | Natural articulation of joints
- 2 | A variety of possible patient positioning
- 3 | Maintenance of the patient position
- 4 | Seamless, one-piece waterproof structure
- 5 | Soft and life-like touch of the skin

#### SKILLS

- | Immobilization technique
- | Fixation of a butterfly needle
- | Changing of clothes of a patients with connected catheters
- | Oxygen tent
- | Body position changing
- | Changing clothes, Bed bathing

#### DESCRIPTIONS

##### SPECIFICATIONS

Size: 98 cm / 38.6 in.

Head circumference: 33 cm / 13 in.

Weight: 7.7 kg / 16.9 lbs

##### SET INCLUDES

- 1 | pediatric manikin
- 1 | pajama
- 1 | instruction manual

##### MATERIALS

Soft resin, metal internal frame

Latex free

M73

## Pediatric Patient Care Model (7-10 months)



### Life-size model of 7-10-month-old female baby

#### FEATURES

- 1 | Natural articulation of joints
- 2 | A variety of possible patient positioning
- 3 | Seamless, one-piece waterproof structure
- 4 | Soft and life-like touch of the skin

#### SKILLS

- | Immobilization technique
- | Fixation of a butterfly needle
- | Changing of clothes of a patients with connected catheters
- | Oxygen tent
- | Body position changing
- | Changing clothes, Bed bathing

#### DESCRIPTIONS

##### SPECIFICATIONS

Size: 70 cm / 27.5 in.

Head circumference: 33 cm / 13 in.

Weight: 5.6 kg / 12.5 lbs

##### SET INCLUDES

- 1 | pediatric manikin
- 1 | pajama
- 1 | instruction manual

##### MATERIALS

Soft resin, metal internal frame

Latex free

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 simulating pediatric patient care scenarios for nurses and caregivers

### Product Supervision

Medical Association of Osaka Prefecture  
Pediatric Medical Care Exploratory Committee



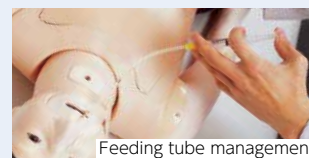
### FEATURES

- 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 in. 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 lubricant
1 irrigation bag	1 instruction manual

#### MATERIALS

Soft resin, hard resin  
Latex free

#### REPLACEMENT PARTS

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

\* Instruments are not included.

US-14a



## 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 there are few opportunities for training. This head phantom 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 H17 cm  
W5.1 x D5.1 x H6.7 in.

Weight: 1.5kg / 3.3lbs

#### SET INCLUDES

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

#### MATERIALS

Polyurethane elastomer  
Latex free

\* Ultrasound scanner is not included.

US-14b



## 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 D5.5 x H7.9 in.

Weight: 1.5kg / 3.3lbs

#### SET INCLUDES

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

#### MATERIALS

Polyurethane elastomer  
Latex free

\* Ultrasound scanner is not included.





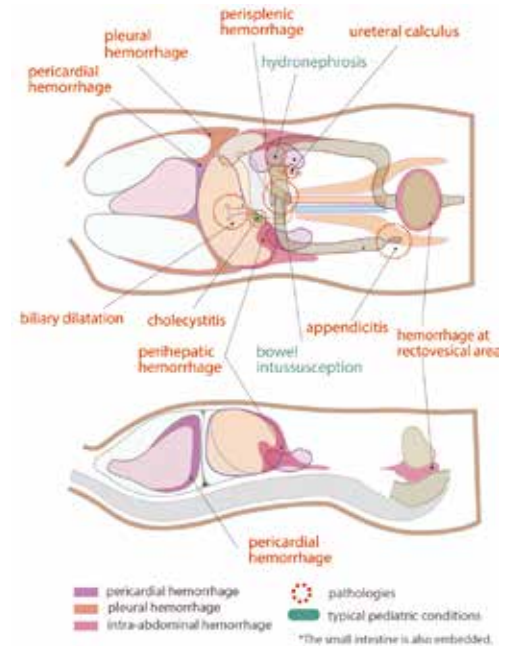
# Pediatric FAST/Acute Abdomen Phantom

## Ultrasound training for pediatric FAST procedures

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

### Product Supervision

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



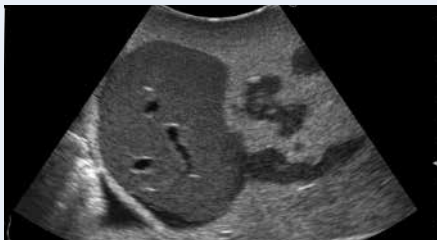
### FEATURES

- 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

### KEY FEATURES



Pleural hemorrhage



Hydronephrosis



Appendicitis

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W41 x D17 x H15 cm  
W16.1 x D6.7 x H5.9 in.

Weight: 7kg / 15.4lbs

#### MATERIALS

Polyurethane elastomer  
Latex free

#### SET INCLUDES

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

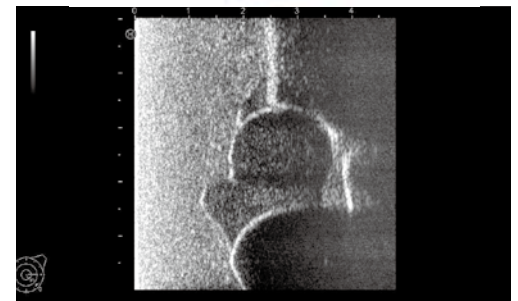
\* Ultrasound scanner is not included.

# 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.



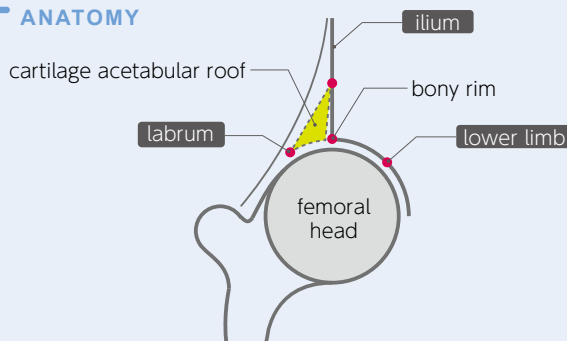
### FEATURES

- 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  
W21.6 x D9.8 x H5.1 in.

Weight: 3kg / 6.6lbs

#### MATERIALS

Polyurethane elastomer  
Latex free

#### SET INCLUDES

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

\* Supporting cushion is not included.  
\* Ultrasound scanner is not included.

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 repositionable as in real-life procedures
- 2 | Two puncture sites on the back of the hand
- 3 | Practice dressing and securing the cannula

#### SKILLS

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

#### DESCRIPTIONS

##### SPECIFICATIONS

Size: W18 x D30 x H9.5 cm / W7.1 x D11.8 x H3.7 in. (one-year-old)  
W18 x D36 x H10 cm / W7.1 x D14.2 x H3.9 in. (three-year-old)

Weight: 0.6 kg / 1.3 lbs (one-year-old)  
0.7 kg / 1.5 lbs (three-year-old)

Power: AC100-240V  
Power Consumption: 5W

##### MATERIALS

Soft resin, hard resin  
Latex free

##### 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
10 cotton swab red	1 instruction manual

##### REPLACEMENT PARTS

11350-010	1 replacement injection arm-hand (three-year-old)
11350-020	1 replacement injection arm-hand (one-year-old)
11388-400	cotton swab red

##### RECOMMENDED DEVICES

indwelling needle: 23G  
butterfly needle: 23G

\* Needles are not included.

M43D



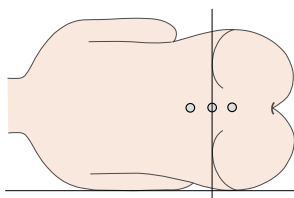
## Pediatric Lumbar Puncture Simulator II

### 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  
W17 x D13.4 x H7.8 in.

Weight: 1.5 kg / 3.3 lbs

##### MATERIALS

Soft resin  
Latex free

##### RECOMMENDED DEVICES

22G-24G spinal needle

##### 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	

##### REPLACEMENT PARTS

11348-100-04	stand for irrigation bag
11348-100-05	irrigation bag
11348-410	2 pediatric LP block (shallow)
11348-420	2 pediatric LP block (deep)

\* Needles are not included.

MW71

NEW

# Pediatric Physical Examination Simulator

## Let's grow up together

A full-body simulator of a one-year-old toddler for training of vital sign measurement and physical examination

### Product Supervision

Kazunari Kaneko, M.D., Ph.D., Director, Vice-President, Dean of Medicine, Director of the Graduate School of Medicine, Chair Professor of Pediatrics, Kansai Medical University

Eri Moriguchi, M.D., Ph.D., Associate Professor, Department of Nursing, Faculty of Health Sciences, Kyoto Koka Women's University

### FEATURES

- 1 | Reproduces the physical characteristics of a toddler
- 2 | Covers examinations required in pediatric consultations and nursing care

### SKILLS

- | Measurement of vital signs
- | Physical examination

## What I can do



**Simulated thermometer included**



**Temperature measurement**  
(bilateral armpits)



**Simulated sphygmomanometer included**



**BP measurement by auscultation**  
(bilateral upper arms)



- Preparation
- Patient positioning

- Observation of eyelids
- Observation of the nasal/ear cavity
- Observation of the lumen
- Palpation of the anterior fontanelle



**Simulated stethoscope included**



**Auscultation**  
(heart/lung/bowel sounds)





**Just like a real one-year-old!**

## I can sit up on my own

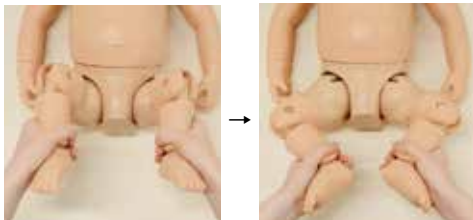
Simulates a baby who has just learned to sit up on his/her own without support. Various situations can be simulated, such as holding the baby in your lap.



## Give me lots of cuddles

Unlike conventional simulators, there are no cords leading to the manikin, so it can be held like a real baby. Even beginner who have few contact with babies can experience holding a baby for the first time.

### Human-like with a wide range of hip motion



This hip joint is the secret to for sitting up and being held like a real baby

### Body and face with soft materials

**You can learn the sequence of clinical observation**

e.g. Oral cavity



Tongue depressors can be used to press down on the tongue

### Real toddler cry

Built-in audio recorded from actual toddlers. Experience first-hand the unique non-verbal cry of a one-year-old to express his/her intentions.

※Audio is played from the speaker on the controller

**Touch screen for easy operation**



**【Adjustable settings】**

- Types of sound
- Heart/respiration rate
- BP (systolic/diastolic)
- Cases
- Volume

## DESCRIPTIONS

### SPECIFICATIONS

Size: approx. H67 cm / 26 in.  
Weight: approx. 3 kg / 6.6 lbs  
power supply: AC100V 50/60Hz  
power consumption: 10W(Controller)

CR2023 coin cell battery \*1(Simulated thermometer)

### MATERIALS

Soft resin  
Latex free

### SET INCLUDES

1 toddler full-body manikin	1 controller
1 wig	1 ac adapter
1 simulated stethoscope	1 pajama
1 simulated sphygmomanometer	1 hat
1 simulated clinical thermometer	1 instruction manual

MW57

# Pediatric Lung Sound Auscultation Trainer



**Gain familiarity with the characteristics of pediatric patients**  
**Acquire clinical skills in action**



Photo cooperation by Iizuka Hospital

## KEY FEATURES

### Wireless multi-unit operation

Wireless operation up to five units from one tablet



### Detailed Case Descriptions

Characteristics of pediatric lung sounds and tips for auscultation



## FEATURES

- 1 | Respiratory rate is adjustable between 15 and 50 breaths per minute
- 2 | Heart rates are automatically set in accordance with the respiratory rates
- 3 | Propagation of sounds on the chest are a crucial characteristic of pediatric patients
- 4 | The torso is designed to represent a patient of 1-5 years old
- 5 | Based on acoustic analysis of recorded lungs sounds, each are classified according to the American Thoracic Society Standards

## SKILLS

- | Learn basic lung sound auscultation technique
- | Recognize adventitious sounds
- | Learn case information with X-ray image

## DESCRIPTIONS

### SPECIFICATIONS

Size: W39 x D39 x H98 cm  
 W15 x D15 x H38.6 in.  
 Weight: 35kg  
 77lbs

power supply: AC100V-240V 50/60Hz  
 power consumption: 180W

### SET INCLUDES

- 1 | pediatric LSAT unit (external speaker incl.)
- 1 | control PC
- 1 | accessories
- 1 | pediatric LSAT T-shirt
- 1 | instruction manual

## Comparison list of Patient Care Simulators

Items		MW26 Basic Patient Care Simulator "KEIKO"	MW25 Patient Care Simulator "YAYE"	MW22 Patient Care Simulator "Cherry"
Appearance				
Specification	Size	Approx. 150cm (59 in)	Approx. 150cm (59 in)	Approx. 163 cm (64 in)
	Weight	Approx. 15kg (33lb)	Approx. 17kg (37.5lb)	Approx. 12.7kg (28.2lb)
	Age/Sex	Elderly Male/Female	Young Male/Female or Elderly Male/Female	Young Male/Female
	Types of wig	✓ Normal wig: Included Wig for shampooing and blowing: Optional	H Young wig (Black): Included Elderly wig (Gray): Optional	x
	Types of mask	x	H Young face mask: Included Elderly face mask: Optional	x
Anatomy	Anatomies excluded	x Stomach (optional), Vagina, Lung, Ribs		x Vagina, Lungs, Ribs
	Anatomies included	✓ Eye Ball, Oral Cavity, Nasal Cavity, Esophagus, Rectum, Bronchus, Ear	✓ Eye Ball, Oral Cavity, Nasal Cavity, Esophagus, Stomach, Vagina, Rectum, Lung, Ribs, Bronchus, Ear	✓ Eye Ball, Oral Cavity, Nasal Cavity, Esophagus, Stomach, Rectum, Bronchus, Ear
Training Skills				
Basic Skills	Basic positioning and care	✓ Body positioning, Movable joints, Change of clothes, Bed bathing, Partial bathing, Hair care	✓ Body positioning, Movable joints, Change of clothes, Bed bathing, Partial bathing, Hair care	✓ Body positioning, Movable joints, Change of clothes, Bed bathing, Partial bathing
Feeding	Tube feeding: Catheter insertion	✓	✓	✓
	Tube feeding: Nutritional supplement administration	x	✓	✓
	Stomach pumping	x	✓	✓
	Gastrostomy care (PEG)	L	x	H
	Tracheotomy care	✓	✓	✓
Oral care	Oral care	✓ Using the oral cover for suctioning	✓	✓
	Denture care	✓	✓	✓
Breathing	Oxygen inhalation	✓	✓	✓
	Airway suction	✓ Using the oral cover for suctioning	✓	✓
Airway management	Airway management	x	✓	x
	Laryngeal Mask	x	✓	x
	Intubation assistance	x	H Able to confirm the ventilation with both lungs	x
Emergency	CPR	x	✓	x
Excretion help	Urinary catheterization	✓ No water use in training	✓ Male genitalia: Optional	✓ No water use in training
	Other cares	✓ Bedpan Practice, Stoma care, Perineal care	✓ Bedpan Practice, Stoma care, Bowel irrigation, Stool extraction, Perineal care	✓ Bedpan Practice, Stoma care, Bowel irrigation
	Pressure sore care	H Shoulder blade / Greater trochanter / Sacrum / Heel	✓ Sacrum	H Shoulder blade / Greater trochanter / Sacrum / Heel
	Wound care	x	x	✓ Wound pad for abdominal area
Injection and infusion	Intravenous injection: Dorsum of hand	x	✓	x
	Collecting blood	x	✓	L
	Subcutaneous injection	x	✓ Using the shoulder injection pad	✓ Using the shoulder injection pad
	Intramuscular injection	x	✓ Using the shoulder injection pad	✓ Using the shoulder injection pad
	Infusion	x	✓	x
	TPN care	x	✓	✓
	Understanding of the CV port	✓	x	x
	Suppository	✓	✓	✓
Assessment	Observation of the whole body	✓	✓	✓
	Procedure of vital signs taking	✓	✓	✓
	Assessment of chest and abdomen	x	✓	x
Postmortem care	Postmortem care	✓	✓	✓

MW25



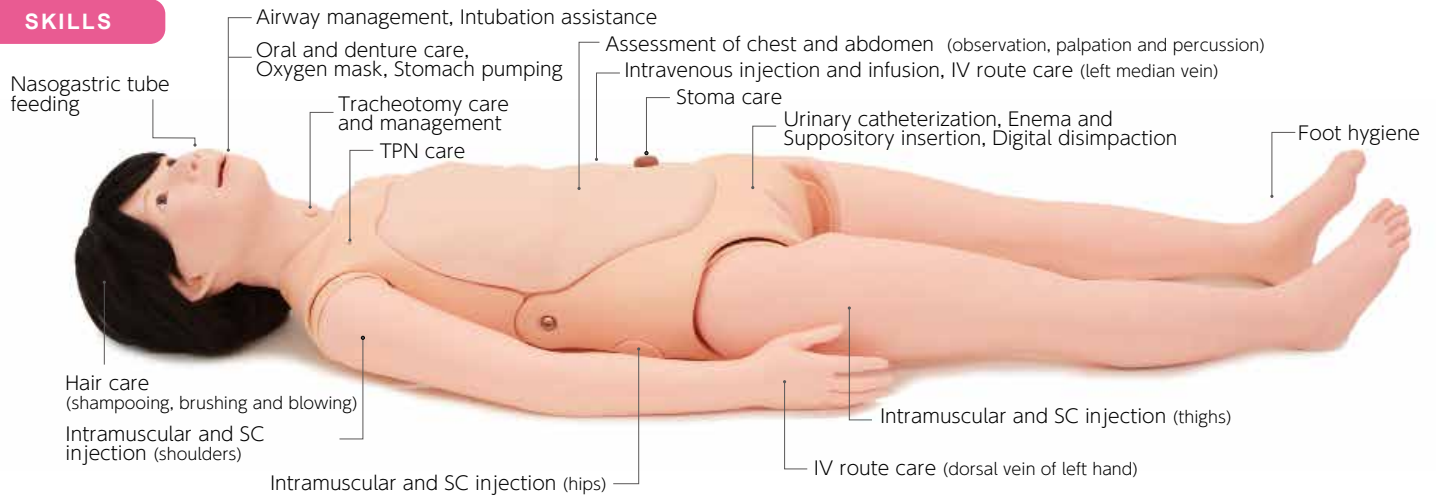
# Patient Care Simulator Yaye

## 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

Perussion

### 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

### 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



### 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 suppositories
- 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 IM pads                      | 11229-050 | lubricant (for airway suction etc.)                            |
| 11251-030 | 2 shoulder IM pads                   | 11381-800 | lubricant (for catheterization)                                |
| 11251-050 | 2 hip IM pads                        |           |  |
| 11404-050 | 4 injection pads (median vein)       |           |  |
| 11404-070 | male genitalia                       |           |  |
| 11404-010 | face mask (elderly)                  |           |  |
| 11404-030 | wig (elderly)                        |           |  |

\* Medical instruments are not included.

MW26

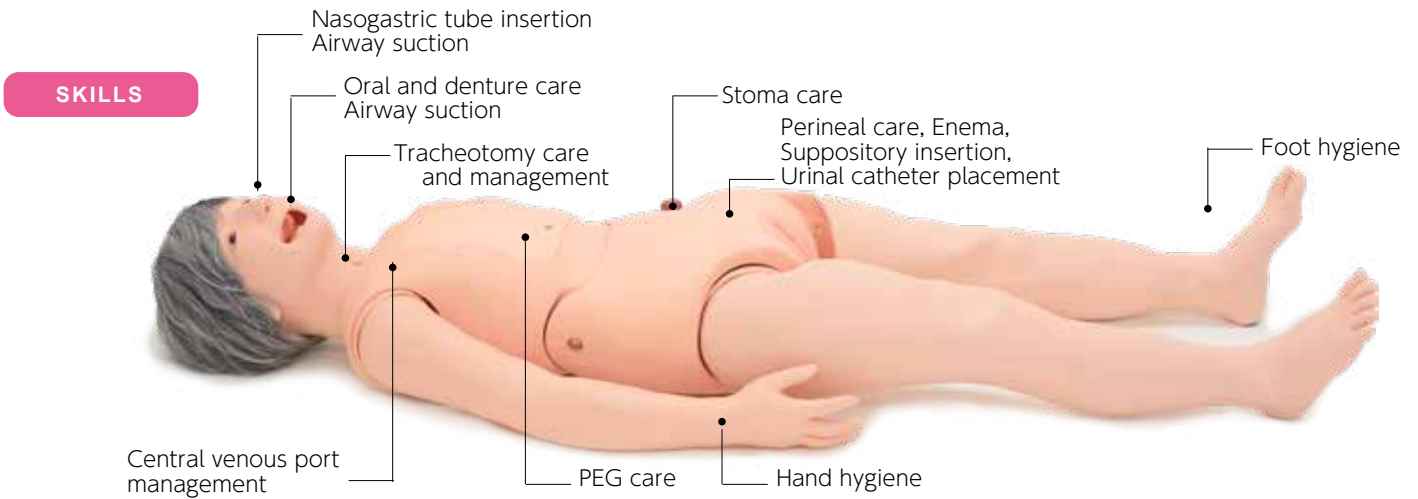


# Basic Patient Care Simulator Keiko

## 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 urinary catheters



Photo: Kyoto College of Nursing

**DESCRIPTIONS**

**SPECIFICATIONS**

Size: 149 cm / 58.7 in. Weight: 15kg / 33lbs

**MATERIALS**

Latex free  
Soft resin

**SET INCLUDES**

1 manikin	1 under pants
1 denture	1 wrench
1 wig	1 instruction manual
1 oral cover for suctioning	1 lubricant for training models
1 female genitalia	1 lubricant for catheterization
1 male genitalia	

**REPLACEMENT PARTS**

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

**OPTIONAL PARTS**

12746-020	tracheotomy tube II
11251-320	simulated suppository set
11251-330	simulated feces set
11405-030	pajamas
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)

\* A wheelchair is not included.

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

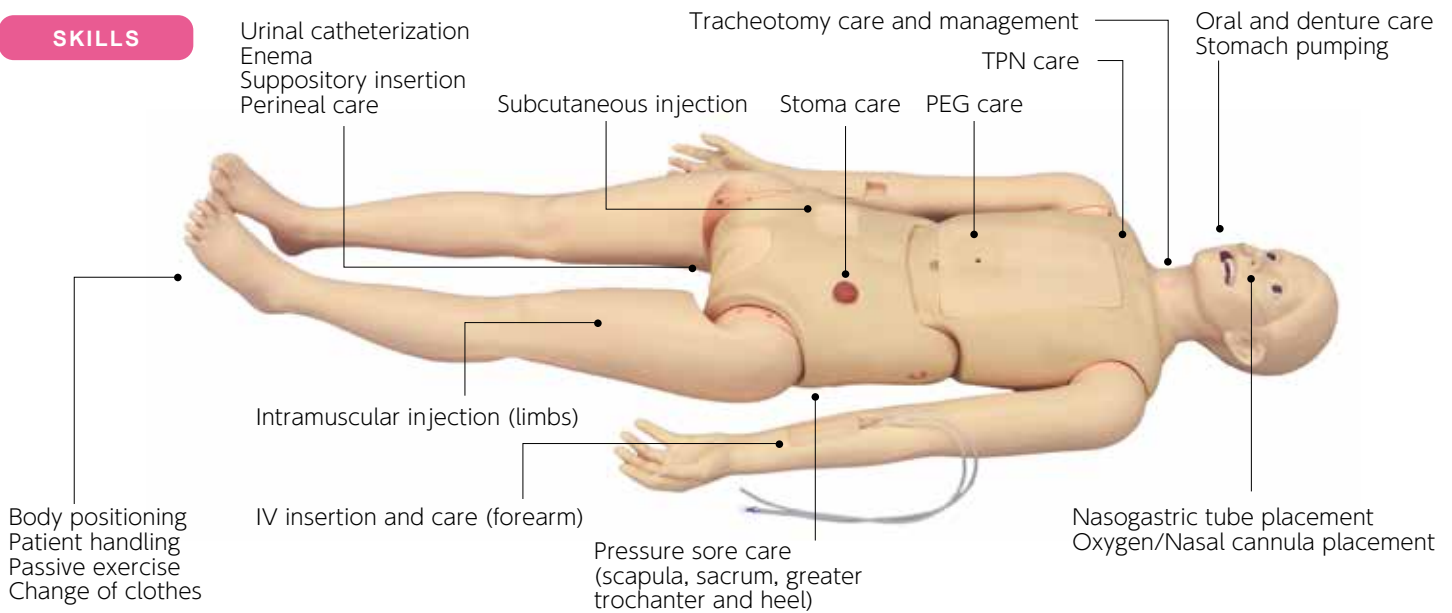


Subcutaneous injection



Wound care

### SKILLS



### DESCRIPTIONS

#### SPECIFICATIONS

Size: 163 cm / 64 in.

#### SET INCLUDES

- 1 manikin
- 1 denture
- 1 set of injection pads (subcutaneous / gluteal / femoral IM / upper arm IM)

#### MATERIALS

Soft resin  
Latex free

- 1 female genitalia
- 1 male genitalia
- 1 wound care pad
- 1 bottle
- 1 syringe

#### 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 2 median antebrachial pad



M72

## Bathing and In-patient Care Simulator (Male)

### Elderly whole-body manikin for basic patient care

This manikin facilitates training for various procedures essential for elderly patient care, such as bathing, hair care, positioning and oral care



#### FEATURES

- 1 | Flexible and seamless joints
- 2 | Waterproof body
- 3 | Allows practice of shampooing, brushing and drying patient's hair
- 4 | Skill training for such patient handling as positioning, carrying or transferring on and off of bed



#### SKILLS

Positioning  
Patient handling  
Range of joint-motion training  
Hair care  
Oral care  
Diaper changing, clothing  
Bathing



#### DESCRIPTIONS

##### SPECIFICATIONS

Size: 168 cm / 66 in. Weight: 14 kg / 30 lbs

##### SET INCLUDES

- 1 manikin
- 1 denture
- 1 wig
- 1 underpants

##### MATERIALS

Soft resin  
Latex free

##### REPLACEMENT PARTS

11274-020 wig for M72

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  
Featuring three routes and compatible with real liquid for training



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 and tube placement
- 3 | Cross-section panel and chest anatomy map for theoretical understandings
- 4 | 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

For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

#### SPECIFICATIONS

Size: W60 x H37 x D23 cm / W25.6 x H14.6 x D9 in. Weight: 4.4kg/9.7lbs

#### 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 light tone
11384-030-D	1 face mask dark tone
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

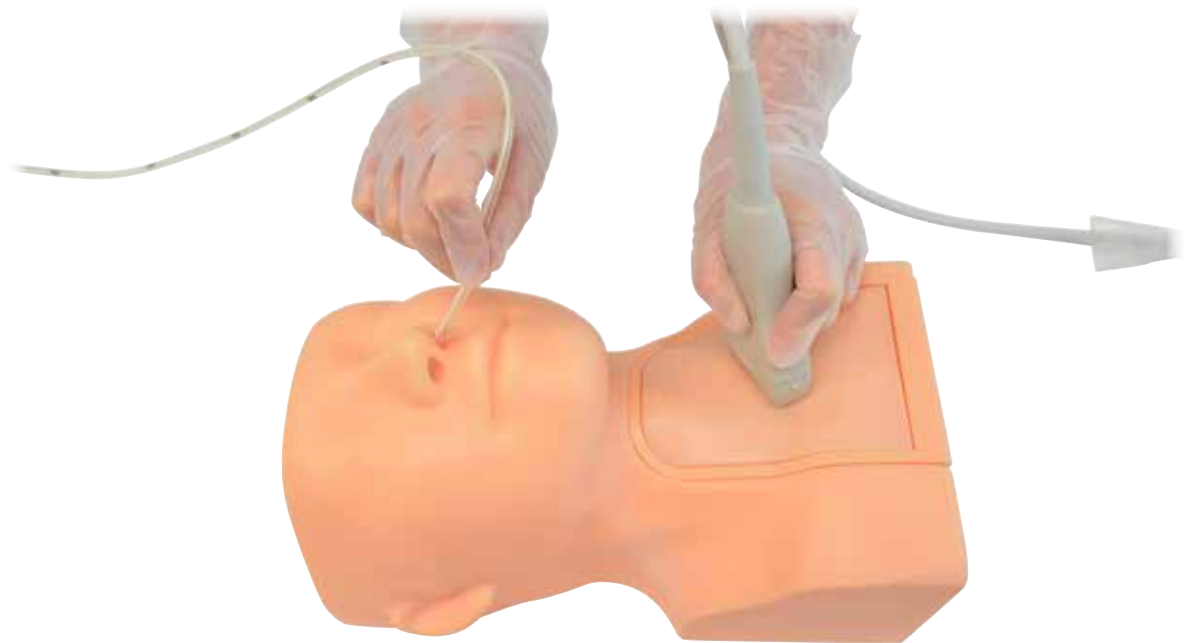
#### SET VARIATIONS

11386-000	MW8 light skin tone
11386-000-D	MW8 dark skin tone

# Ultrasound Guided Tube Feeding Phantom

## Anatomically correct neck model for Ultrasound Guided Tube Feeding Training

Product Supervision  
Hirosaki University Hospital,  
General Medical Department.  
Dr. Kobayashi Tadashi

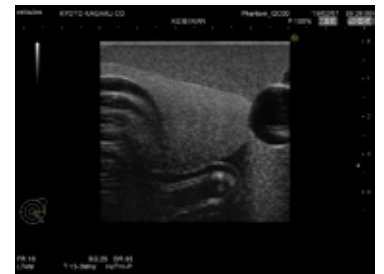


### FEATURES

- 1 | Anatomically correct neck model
  - Thyroid Gland
  - Trachea
  - Esophagus
  - Sternum
  - Collarbone
  - Carotid Artery
  - Jugular Vein
- 2 | Realistic neck ultrasound images
- 3 | Usable with real ultrasound diagnostic devices
- 4 | Allows the confirmation of the proper Nasogastric Tube Placement with ultrasound
- 5 | Inner switch for tube insertion direction: trachea/esophagus for tube location image recognition tests (recognition by ultrasound of proper esophagus insertion or wrong tracheal insertion)

### SKILLS

- | Proper handling and manipulation of probe on neck ultrasound
- | Feeding tube insertion
- | Confirmation of tube placement by ultrasound
- | Neck scan to evaluate the tube position



Ultrasound image

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W29 × H17 × D18 cm  
W11.4 × H6.7 × D7.1 in.

Weight: 2.8kg  
6.2lbs

#### SET INCLUDES

- 1 | main body
- 1 | ultrasound neck block
- 1 | nasogastric tube
- 1 | syringe
- 1 | talcum powder
- 1 | storage case

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: W45 x H23 x D15 cm / W17.7 x H9 x 5.9 in. Weight: 2kg/4.4lbs

#### SET INCLUDES

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

#### 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 suctioning
12746-020	tracheostomy tube II



MW58

## Male Suprapubic Catheter Care Simulator

NEW

MW59

## Female Suprapubic Catheter Care Simulator

NEW

### A comprehensive trainer for suprapubic catheter changing



#### FEATURES

- 1 | Changing suprapubic catheters  
Successful insertion confirmation by fluid outflow  
Training includes check points in the skills such as catheter mobility and confirmation of urine discharge
- 2 | Suprapubic catheter care (securing catheter in place)  
Facilitates training of securing catheter with gauze and surgical tap  
Confirmation of catheter placement
- 3 | Observation of the catheter through transparent bladder wall

#### SKILLS

- | Changing suprapubic catheters
- | Suprapubic catheter care (securing catheter in place)
- | Placement of transurethral balloon catheters
- | Enema at lateral positions

MW59



MW58



Confirmation of discharge of urine



Catheter insertion



#### DESCRIPTIONS

##### SET INCLUDES

- 1 lower torso manikin
- 1 genital organ unit
- 4 valves (2 are incorporated in the assembled unit)
- 1 irrigation bottle
- 3 irrigation drainage tubes
- 1 instruction manual

##### REPLACEMENT PARTS

- 11440-010 SPC male skin
- 11441-010 SPC female skin
- 11441-020 cap for suprapubic opening
- 11441-030 SPC urinary bladder reservoir

MW2A

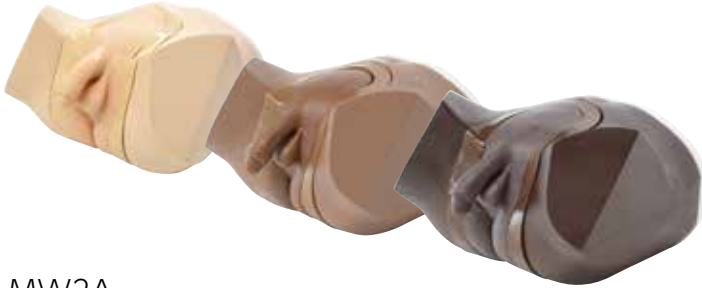


## Male Catheterization/Enema Simulator

MW52



## Female Catheterization/Enema Simulator II



MW2A

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



MW52

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

**MW2C** 11381-199-B  
11381-199-BD

Male Genital Unit only

**MW2D** 11433-299-B  
11433-299-BD

Female Genital Unit only



Enema Training



Pass of catheter can be observed through transparent bladder reservoir



## DESCRIPTIONS

#### SPECIFICATIONS

Size: W34 x D33 x H24 cm / W13.5 x D13 x H9.5 in.  
Weight: 3.5kg / 7.7lbs(M) 3.4kg / 7.5lbs(F)

#### MATERIALS

Soft resin  
Latex free

#### SET INCLUDES

- 1 lower torso manikin (MW2A, MW52)
- 1 genital organ unit
- 3 valves (one is incorporated in the assembled unit)
- 1 irrigation bottle
- 1 rectum tube
- 3 irrigation drainage tubes
- 1 lubricant

- 1 storage case
- 1 instruction manual

#### SET VARIATIONS

- |              |                      |
|--------------|----------------------|
| 11381-100    | MW2A light skin tone |
| 11381-100-D  | MW2A dark skin tone  |
| 11433-000    | MW52 light skin tone |
| 11433-000-D  | MW52 dark skin tone  |
| 11381-100-04 | rectum unit          |

#### REPLACEMENT PARTS

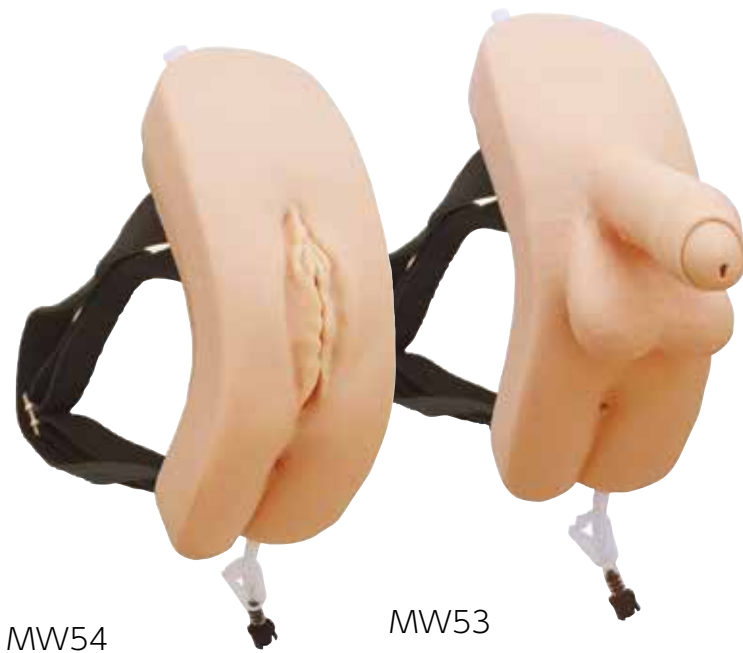
- |              |   |           |                             |
|--------------|---|-----------|-----------------------------|
| 11381-100-01 | clip (small) for urethral tube for MW2A | 11381-300 | 6 replacement valves        |
| 11381-100-02 | clip (large) for MW2A/MW2B/MW2C         | 11433-010 | 1 replacement female skin   |
| 11433-000-01 | clip (large) for MW52                   | 11433-020 | 2 replacement female meatus |
| 11381-100-03 | urinary bladder reservoir               | 11381-800 | lubricant                   |
| 11381-100-04 | rectum unit                             | 11381-410 | 1 replacement male skin     |
|              |   | 11381-510 | 2 replacement male meatus   |
| 11381-199-B  | MW2C light skin tone                    |           |                             |
| 11381-199-BD | MW2C dark skin tone                     |           |                             |
| 11433-299-B  | MW2D light skin tone                    |           |                             |
| 11433-299-BD | MW2D dark skin tone                     |           |                             |

\* Catheters are not included.

MW54/MW53/MW55

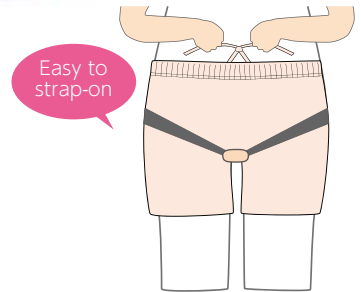
# Strap-on Catheterization / Enema Simulator

Reality in skills training combined with scenarios for communication



### True-to-life softness

Labia can be kept open through the catheterization procedures with the non-dominant hand



### FEATURES

- 1 | Soft female genitalia permits holding the labia in open position throughout the procedure from sterilization to the placement of the catheter
- 2 | Anatomically correct structure facilitates acquisition of body sense along with the procedure
- 3 | Compatible with balloon catheters  
Water (simulated urine) flows out when appropriate length of a catheter is inserted

### SKILLS

- | Cleansing and aseptic technique
- | Catheter insertion and placement
- | Confirmation of urine discharge
- | Catheter removal
- | Enema



The catheter can be inserted when the penis is held at the right angle



Injection of enema fluid



Realistic resistance to the catheter

### DESCRIPTIONS

#### SPECIFICATIONS

Life-sized genitalia model: W8 x D21 x H18 cm / W3 x D8 x H7 in. 0.5kg / 1.1lbs(male)  
W8 x D21 x H9 cm / W3 x D8 x H3 in. 0.4kg / 0.9lbs(female)

#### SET VARIATIONS

female: 11434-000  
male: 11435-000  
value set: 11436-000

#### REPLACEMENT PARTS

11381-800 lubricant

#### SET INCLUDES

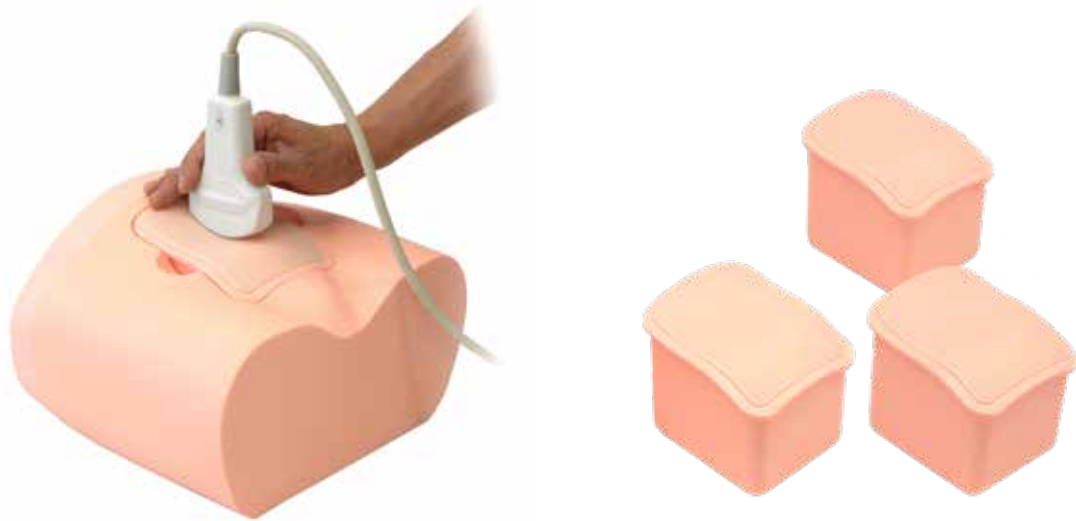
1 genitalia model	1 lubricant
1 reservoir bag	1 catheter for maintenance
1 drainage tube	1 instruction manual
1 strap band	
1 shorts	

US-16



# 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

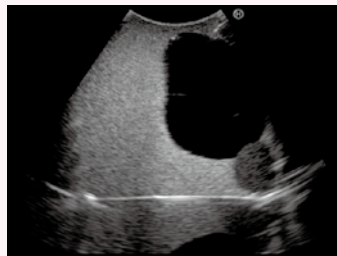
## KEY FEATURES



Urine volume 50mL



Urine volume 150mL



Urine volume 300mL



Urinary retention + balloon catheter

## DESCRIPTIONS

### SPECIFICATIONS

Size: W30 x D26 x H18 cm Phantom: 1.5kg / 3.3lbs  
W12 x D10 x H7 in. Body: 3.2kg / 7.1lbs

### SET INCLUDES

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

### MATERIALS

Latex free



US-23



NEW

# Rectal and Bladder Ultrasound Phantom

## Ultrasound training cubes for assessment of residual urine and excretion

### Product Supervision

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



### FEATURES

- Variation of residue excretion in the rectum for ultrasound assessment:  
hard, soft, combination and empty
- Three types of urinal bladder for assessment and urine volume measurement:  
small, middle, large with a balloon catheter

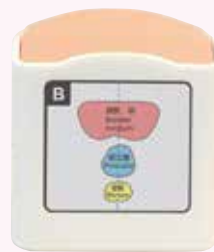
### SKILLS

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

**A: Small bladder /  
Hard excretion**



**B: Middle size bladder /  
Soft excretion**



**C: Large bladder with a  
balloon catheter / Hard and  
soft excretion / empty rectum**



## DESCRIPTIONS

### SPECIFICATIONS

Size: W15 x D15 x 20H cm each  
W5.9 x D5.9 x H3.4 in. each

Weight: 2.0kg each  
0.9lbs each

### SET INCLUDES

- 3 types of ultrasound phantom cube
- 1 talcum powder
- 1 storage case
- 1 instruction manual

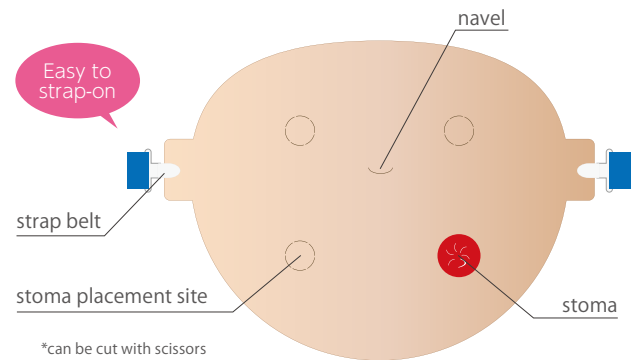
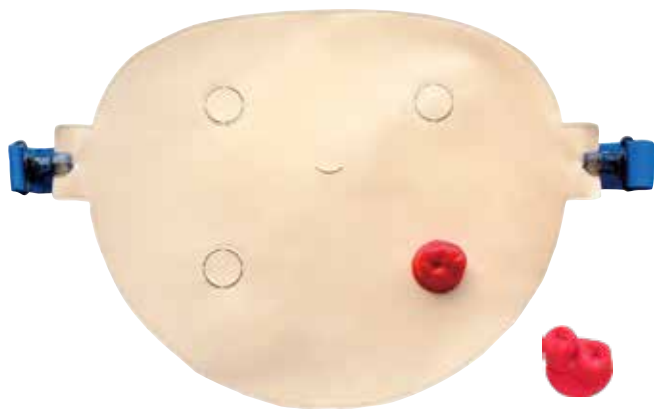
\* Ultrasound scanner is not included.

MW72

NEW

# Strap-on Ostomy Care Trainer

For hands-on training to acquire an array of ostomy care skills, through hybrid training on SP or in combination of full body manikin



## FEATURES

- 1 | Simple and easy to handle
- 2 | Two types of stoma models, end stoma and loop stoma, and four sites to set stomas for a variety of training scenarios
- 3 | Thin material of the skin to simulate wrinkles that accompany patient's posture, while fitting naturally on the abdomen of the SP
- 4 | Anti-slip surface of the skin and the belt connectors to located in front facilitate smooth preparation and training
- 5 | Simulated feces for realistic training

## SKILLS

- | Cleansing
- | Changing pouches
- | Emptying pouches



## DESCRIPTIONS

### SPECIFICATIONS

Wearable abdomen model (stoma attached): W35×D3×H26 cm  
W13.8×D1.2×H10.2 in.

### SET VARIATIONS

one unit set: 11465-100  
five units set: 11435-000

### REPLACEMENT PARTS

11465-040 simulates feces (set of 20)  
11465-010 replacement skin  
11465-050 strap belt

### SET INCLUDES

1 abdominal skin	1 strap belt
1 end stoma	1 simulated feces
1 loop stoma	1 instruction manual

MW63/MW63B



# Pressure Sores Simulator

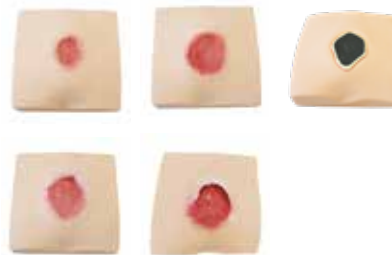
**Depth, Exudate, Size, Inflammation, Granulation can be trained using a combination of different pads and simulated liquid**

**Product Supervision:**

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



Debridement of necrotic tissue

**VARIATIONS**

- | Sacral pressure sore with different stages (4 types)
  - Partial-thickness loss of dermis
  - Full-thickness skin loss
  - Full-thickness skin loss with granulation
  - Full thickness tissue loss with exposed bone
- | Greater trochanter pressure sore
  - Full-thickness skin loss
- | Sciatic pressure sore
  - Full thickness tissue loss with exposed bone

**FEATURES**

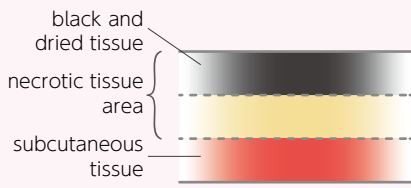
- 1 | In accordance with the DESIGN-R 2020, all seven features can be taught using a combination of different pads and simulated liquid
- 2 | Ultrasound assessment of deep tissue injury  
Two types are included: normal and edema
- 3 | Cleansing, applying dressings or topical medications and procedures of Negative Pressure Wound Therapy (NPWT)
- 4 | Simulated exudate, and necrotic tissue set are included  
Excellent quality in appearance and texture

**SKILLS**

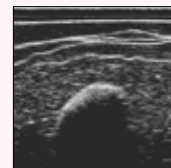
- | Pressure Sore Assessment
- | Palpation of the wound
- | Ultrasound assessment of deep tissue injury (edema in the sciatic area)
- | Wound cleansing care
- | Applying dressings
- | Applying topical medications
- | Negative Pressure Wound Therapy
- | Debridement of necrotic tissue
- | Pressure Sore Prevention

**KEY FEATURES**

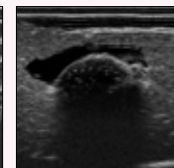
- Necrotic Tissue Removal set  
**Three-layer structure**



- Sciatic pressure sore:  
Ultrasound assessment of deep tissue injury  
Two types are included: normal and edema



Normal



Edema

**DESCRIPTIONS****SPECIFICATIONS**

Size: W44 x D40 x H38 cm / W17.3 x D15.7 x H15 in. Weight: 3.8 kg / 8.4 lbs

**SET INCLUDES**

1 lower body torso	1 necrotic tissue removal set*
1 four types of sacral pressure sore pads	1 storage case
1 sciatic pressure sore pad stage IV	1 instruction manual
1 two types of echo pads*	
1 consumables set	marked* are for full set only

**SET VARIATIONS**

Full set (MW63) : 11446-000  
Basic set (MW63B) : 11446-100

**REPLACEMENT PARTS**

11446-010	1 consumables set	11446-200	1 necrotic tissue removal set
11446-020	1 simulated pus	11446-220	1 base for necrotic tissue removal
11446-030	1 simulated exudate	11446-210	1 pad for necrotic tissue removal
11446-040	1 simulated blood	11446-070	1 set of two types of echo pads
11446-050	1 simulated necrotic tissue		

**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 ingrown nail and thickened nail with ringworm)
- | Trimming and removal of callosities
- | Trimming and removal of corns
- | Foot assessment (demonstration)
- | Foot massage (demonstration)

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W21 x D21 x H28 cm / 8.3 x 8.3 x 11 in. Weight: 1.2g / 2.9lbs

#### 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.

MW1



# Pitting Edema Simulator

## Five variations of pitting edema simulator

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

### Product Supervision

Junji Otaki  
Professor of Tokyo Medical University



Normal



1+ Light Pitting

2mm



2+ Moderate Pitting

4mm



3+ Deep Pitting

6mm



4+ Very Deep Pitting

8mm

### SKILLS

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

### 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 manikin
- 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
- 5 | Good combination with our nursing dolls

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W10 x D20 cm / W3.9 x D7.9 in. Weight: 0.15g / 0.33lbs

#### SET INCLUDES

5 variations of strap-on pitting edema model
1 instruction manual

#### MATERIALS

Soft resin  
Latex free



MW23

# Adult Diaper Changing Trainer

Promotes clear visual understanding in adjusting a diaper  
in order to ensure patient's comfort and prevent leakage

Appropriate use of a diaper improves patient's  
Activities of Daily Living (ADL) while preventing bedsores and their aggravation



## FEATURES

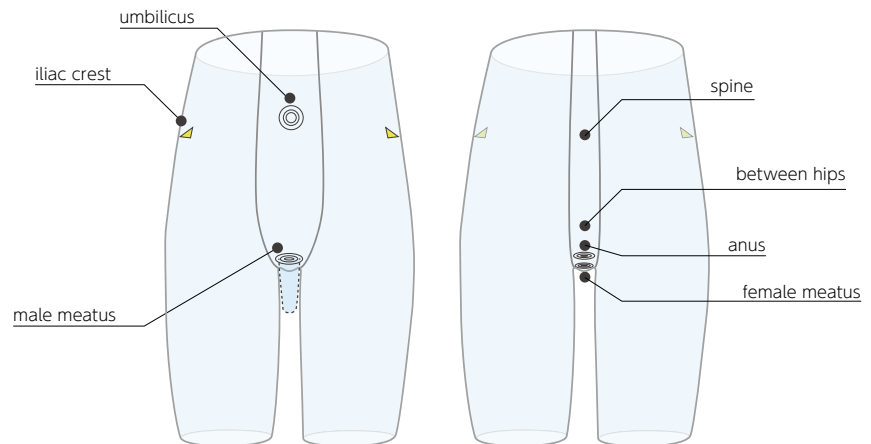
- 1 | Landmarks for a diaper adjustment
- 2 | Simulated urine or watery feces can be used
- 3 | Transparent lower torso allows for direct observation of internal view of the diaper
- 4 | Both male and female patients can be simulated
- 5 | Lightweight and easy-to handle

## SKILLS

- | Elimination assistance (Diaper-Changing)



male genitalia



## DESCRIPTIONS

### SPECIFICATIONS

Life-sized lower torso: W31 x D50 x H21cm / W12 x D20 x H8 in.  
0.5kg / 1.1lbs

### SET INCLUDES

1 lower torso manikin	1 simulated watery feces
1 male genitalia	1 bottle
1 irrigation bag	1 manual pump
1 connection tube	1 set of simulated urine
1 syringe	(10 swab set)
1 beaker	

### REPLACEMENT PARTS

11381-800 simulated urine (10 swab set)  
11229-070 simulated watery feces (set of 3 packs)  
11402-010 10 cotton swab blue

MW29



# Oral Care Simulator Advanced

## Oral care simulator which can mimic various patient conditions

Realistic oral cavity and denture sets  
Actual water can be used to clean oral cavity



Brushing



Oral care swab



Suctioning

### 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 oral cavity
- | Identifying oral thrush
- | Care for humidity retention
- | Replacement and maintenance of 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: W21 x D37 x H26 cm / W8.3 x D14.6 x H10.2 in. Weight: 2.6 kg / 5.7 lbs

#### 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.

NEW

# Introduction of EAR and EYE Siblings

New siblings with digital features are added to the long-selling Ear and Eye examination simulators. Let's explore about the different charms and characteristics of each of them.

MW12 EAR Examination Simulator II	Comparison list of Simulators	Digital EAR Examination Simulator II <span style="color: purple;">NEW</span>
Novice	Target Learners	Advanced Novice to Intermediate
Skills		
✓	Ear examination	✓
✓	Ear wax and foreign body removal	-
✓	Handling of devices	-
Device		
✓	Otoscope	✓
✓	Forceps	-
✓	Swab	-
Indicating painful insertion system		
✓	beep (self-learning mode)	-
✓	silent red light / yellow light (instructor mode)	-
Pathology		
9	Cases	9
-	Image Importer	✓

Close to clinical reality to learn use of an otoscope light

Includes simulated foreign bodies and ear wax

clear and bright view of the eardrums

M82 EYE Examination Simulator	Comparison list of Simulators	MW61 Digital EYE Examination Simulator II <span style="color: purple;">NEW</span>
Novice	Target Learners	Advanced Novice to Intermediate
Skills		
✓	Eye examination	✓
✓	Handling of devices	-
Device		
✓	Ophthalmoscope	✓
Pathology		
10	Cases	40
-	Image Importer	✓

Includes simulated foreign bodies and ear wax

\*Look up skin tone variation for each type on the web

Eye and Ear Siblings look forward to supporting your skills training

NEXT  
Product pages of  
EAR and EYE Siblings

MW12



# 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 is excessively inserted



### KEY FEATURES



Alarm indicating painful insertion



Quick switching between cases

### FEATURES

- 1 | Alarm indicating painful insertion:
  - beep (self-learning mode)
  - silent, red light/yellow light (instructor mode)
- 2 | 9 preset cases
- 3 | Quick switching 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 ears with auricles that 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
- 10 | Real clinical images

### SKILLS

- | Ear examination with a real 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
- | cerumen block



normal



cholesteatoma

### DESCRIPTIONS

For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

#### SPECIFICATIONS

Size: 42 x 22 x 39 cm / 16.5 x 8.7 x 15.3 in. Weight: 1.75kg / 3.85lbs

#### 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 objects and a spoon	-exam ear (stenosis)
	-FB ear (normal)
1   instruction manual	-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 objects and a spoon

#### SET VARIATIONS

- 11391-000 MW12 light skin tone  
 11391-000-D MW12 dark skin tone





NEW

# Digital EAR Examination Simulator II

## Digital system allows for expansion of case library of ear-drum images

Digital EAR Examination Simulator featuring image importer for educators to add a variety of different case images



### KEY FEATURES



Selection by the button The back screen enables the instructor to monitor students and track the cases during examinations

### FEATURES

- 1 | Custom fundus images can be programmed into the simulator via USB
- 2 | Ear canals come in 2 sizes - normal and stenosis
- 3 | Work with an actual otoscope
- 4 | The manikin neck can be tilted
- 5 | Training is possible with both left and right ears

### SKILLS

- | Ear examination with a real 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
- | cerumen block

### DESCRIPTIONS

For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

#### SPECIFICATIONS

Size: 42 x 22 x 39 cm / 16.5 x 8.7 x 15.3 in.    Weight: 2.5kg / 5.5lbs    Power Consumption : 2.5W

#### SET INCLUDES

- 1 | manikin head and shoulder
- 1 | types of ear units -1 pair each
  - exam ear (normal)
  - exam ear (stenosis)
  - FB ear (normal)
  - FB ear (stenosis)

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 a 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

- 1 | 10 fundus slide cases of common eye diseases
- 2 | Real clinical images
- 3 | Lens-equipped eyeball units that simulate the visual axis of the human eye
- 4 | Soft and supple material, making the raising of the eyelid realistic
- 5 | Adjustable depth of the fundus slides: hyperopic, normal, and myopic views
- 6 | Red reflex can be detected
- 7 | Different sizes of pupil can be set at 3 steps in M82, 2 steps in M82A

#### SKILLS

- | Fundus examination with real ophthalmoscope

#### CASES

- | Normal fundus
- | Hypertensive retinopathy:
  - Grade 3 arteriolar vasoconstriction
  - Grade 1 arteriosclerosis
  - 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.

#### DESCRIPTIONS

👍 For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

#### SPECIFICATIONS

Size: W42 x D22 x H39 cm / W16.5 x D8.7 x H15.4 in. Weight: 2kg / 4.4lbs

#### SET INCLUDES

1 manikin head and shoulder	1 set of fundus images (10 cases)
- 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

#### MATERIALS

\*Latex is included in the blower

#### REPLACEMENT PARTS

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

#### SET VARIATIONS

11220-000 M82 light skin tone  
11220-000-D M82 dark skin tone  
11220-999A M82A light skin tone  
11220-999A-D M82A dark skin tone

\* ophthalmoscope is not included.

MW61

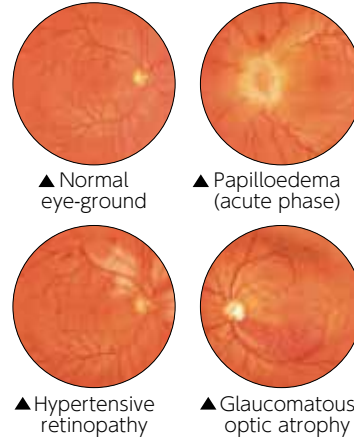


NEW

# Digital EYE Examination Simulator

## Innovative Eye Examination Simulator

Our standard Eye Examination Simulators are utilized by many simulation centers. This digital version of the Eye Examination Simulator is an upgrade to showcase various innovative features.



Selection by button The back screen enables the instructor to monitor students and track the cases during examinations

### FEATURES

- 40 cases of fundus images (including 10 common diseases) are pre-installed for eye examination training and viewable on 160dpi monitor
- Custom fundus image can be programmed into the simulator via USB
- For eye examination training with all types of direct ophthalmoscopes
- The preprogrammed fundus images are taken from actual cases in order to properly reproduce appropriate representative views of the eye unit
- 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

### SKILLS

- Fundus examination with real ophthalmoscope

### CASES

- Normal eye-ground
- Hypertensive retinopathy: arteriolar vasoconstriction grade 3, arteriosclerosis grade 1, hemorrhages and cotton wool spots, simple vein concealment
- Simple/background 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 (after retinal laser photocoagulation)
- Toxoplasmosis: retinochoroiditis
- Age-related macular degeneration: macular exudates and subretinal hemorrhage

### KEY FEATURES

- 3 types of Enlarged optic disc recess
- Enlarged optic disc recess (Tilted disc)
- Enlarged optic disc recess ( Infiltrate spot)
- 2 types of Drusen
- 2 types of Enlarged optic disc recess with drusen
- Macular Drusen

### Additional images (30 cases)

- Optic disc haemorrhage
- Haemorrhage
- 2 types of Chorioretinal atrophy
- 4 types of Vitreous clouding
- 2 types of Retinal nerve fiber layer defect
- Pigmentation
- Haemorrhage with Vascular white sheath
- Photocoagulation spots
- 3 types of Epiretinal membrane
- Keratoconus
- Macular Degeneration
- Megalopapilla; eye exudate

### DESCRIPTIONS

For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

#### SPECIFICATIONS

Size: W42 x D21.5 x H38 cm / W16.5 x D8.5 x H15 in. Weight: 2.5kg / 5.5lbs  
Power Consumption : 2.5W

#### MATERIALS

\*Latex is included in the blower

#### SET INCLUDES

- 1 manikin head and shoulder
- 1 pupil switch
- 3 steps (2, 3.5, 5mm diameter)
- 1 carrying case
- 1 instruction manual

\* ophthalmoscope is not included.

MW7B

# Blood Pressure Measurement Trainer II

**Become familiar with the physiology of hypertension through blood pressure observations**

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



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 Korotkoff sounds phase I to V
- 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: W70 x D19 x H17 cm / W27.7 x D7.5 x H6.7 in.      Weight: 2.65kg/5.84lbs  
 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 adapter	1   carrying bag
1   power cable	1   quick start guide
1   connection cable	



MW43



# AbdoAbby Abdominal Examination Simulator

**Realistic 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 Sanno Medical Center, Japan

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

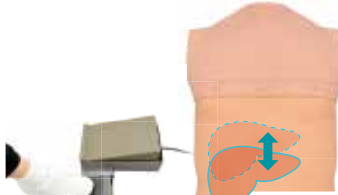
Tamerlan Babayev  
Assistant Professor  
Office of Medical Education,  
International University of Health and Welfare,  
Japan



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 and bowel sounds
- | Palpation
  - liver, spleen, kidney, uterus and lymphoma
- | Percussion
  - liver, spleen and rib

## KEY FEATURES

### Bony landmarks

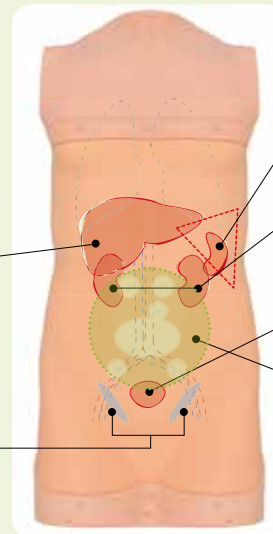
- | Pelvis
- | Ribs
- | Lower rib cage
- | Costal margin
- | Xiphisternum
- | Pubic crest
- | Anterior superior iliac spines

### Liver

- | Normal
- | Chronic hepatitis
- | Precirrhosis
- | Cirrhosis

### Inguinal area

- | Normal
- | Lymphoma



### Spleen

- | Normal
- | Enlarged
- | Slightly enlarged

### Kidney

- | Normal
- | Hydronephrosis
- | Polycystic kidney

### Uterus

- | Normal
- | Myoma

### Bruits and sounds

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

## DESCRIPTIONS

For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

### SPECIFICATIONS

Size: 40 x 80 x 20 cm / 15.7 x 31.5 x 7.9 in.  
Weight: 14kg / 30.9lbs

### MATERIALS

Soft resin, Latex free

### SET VARIATIONS

11423-999A MW43 light skin tone  
11423-999A-D MW43 dark skin tone  
11423-999 MW43 without stethoscope, light skin tone  
11423-999-D MW43 without stethoscope, dark skin tone

### SET INCLUDES

1 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)	3 storage cases
	1 instruction manual

MW30

# Head and Neck Palpation Trainer

## New, innovative and ultra-realistic touch, designed to standardize palpation experiences

With realistic tactile material, this head and neck palpation trainer provides a sensation similar to human skin

### 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

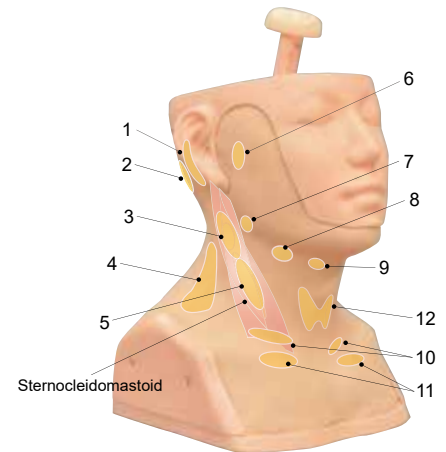
- Provides opportunities for hands-on training.
- Abnormal findings to complement training with healthy simulated patients
- Ensures that trainees share the same tactile sensation to specify the findings
- Maintain objective approaches for skills examination

### SKILLS

- Palpation of head and neck for lymph nodes, thyroid and salivary glands
- Palpation skills to support 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



## 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: W29 x D29 x H47 cm / W11.4 x D11.4 x H18.5 in. Weight: 6.5kg / 14.3lbs

#### SET INCLUDES

- head and neck manikin with storage case
- instruction manual

#### MATERIALS

Soft resin  
Latex free

MW62

NEW

# Thyroid Palpation Simulator

## World exclusive palpation trainers for thyroid disorders



### Product Supervision

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

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

Tamerlan Babayev  
Assistant Professor  
Office of Medical Education,  
International University of Health and Welfare,  
Japan

### FEATURES

- 1 | Faithfully reproduced tactile feeling of each thyroid condition enables hands-on training to acquire skills for differentiation of various disorders through palpation, which is hard to communicate verbally
- 2 | Supports acquiring integrated thyroid examination skills including inspection, percussion, palpation and auscultation
- 3 | Ideal tool for training and OSCE for under and post-graduate as well as clinicians

### SKILLS

- | Palpation of thyroid pathologies
- | Palpation skills to support clinical reasoning

### KEY FEATURES

Individual models of different pathologies (proposed)



No.1  
Graves' Disease



No.2  
Hashimoto's Disease



No.3  
Carcinoma



No.4  
Solitary Thyroid Cyst



### Swallowing

Swallowing motion to identify and assess the thyroid gland

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W19.5 x D21 x H26 cm / W7.7 x D8.3 x H10.2 in. each  
Weight: 3kg / 6.6lbs each

#### MATERIALS

soft resin  
hard resin

#### OPTIONAL PARTS

Carotid bruit at the parotid gland and Submandibular gland  
Auscultation of carotid bruit is possible with the simulated stethoscope  
11445-030 Simulated stethoscope for MW62





# Physical Assessment Simulator Physiko

## Physiko is more than just a simulated patient

Physiko is designed to simulate physical assessment situations for health care trainees. Twelve preset cases simulate typical chief complaints of patients 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 (Obstruction)	
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





Physical Assessment Mode 1

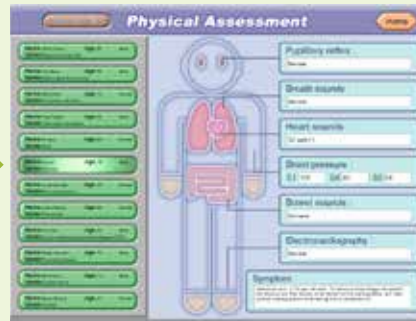
Patient Cases

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
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.



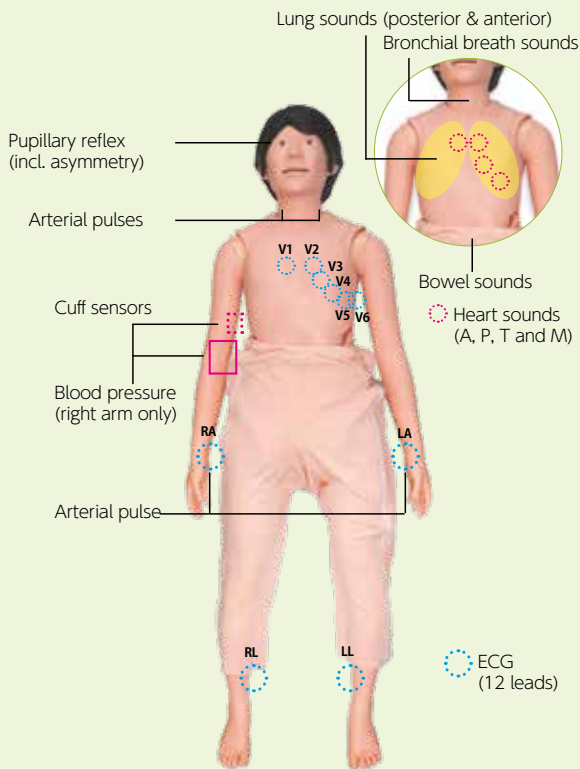
Physical Assessment Skills Training

Individual Examination Skills Training

Physiko allows individual assessment skills training



- Pupillary reflex
- Blood pressure
- Auscultation of lung sounds
- Auscultation of heart sounds
- Auscultation of bowel sounds
- ECG simulation



DESCRIPTIONS

SPECIFICATIONS

Size: 155cm/61 in. 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
- 1 microphone

MATERIALS

Soft resin, hard resin  
 Latex free



# Physical Assessment Simulator Physiko Plus

## Learning-to-Listen features open wider possibilities for training

“Learning-to-Listen” training: teaching medical students to anticipate, describe and identify physical examination findings

The goal of “Learning-to-Listen” is to provide learners with deliberate practice in the recognition and interpretation of clinical findings obtained during the auscultation of the heart sound

### Product Supervision

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



## KEY FEATURES

### Learning-to-Listen

Nine modules with contrasting scenarios to facilitate learning for all medical and nursing students

- In each module, preset patients are prepared for individual physical assessment
- After the physical assessment, trainees can take programmed heart sound test

Select a module



Select a patient



Physical assessment



Heart sound test



Physical Assessment Mode 1

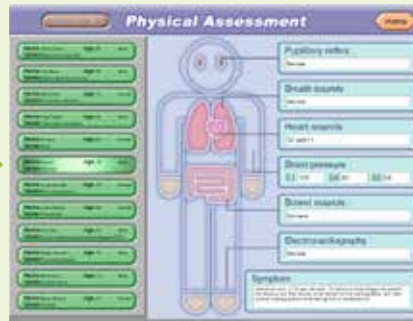
Patient Cases

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

Top menu



Choose a patient



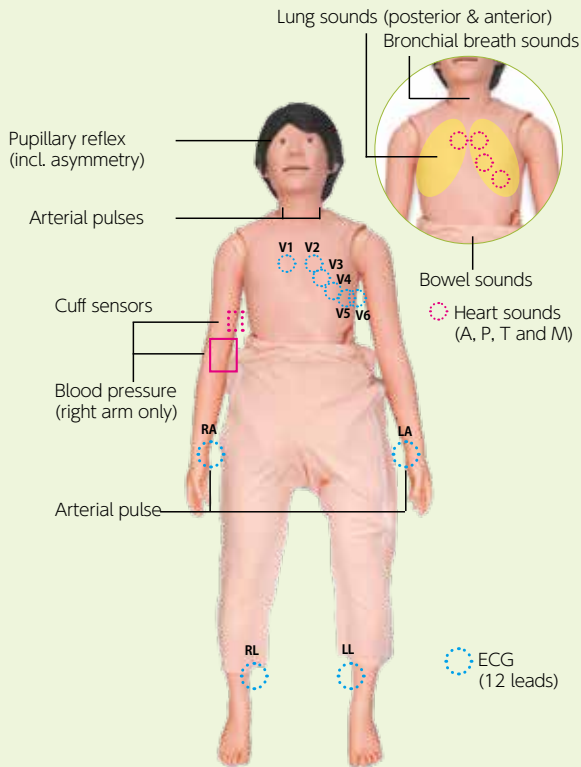
Start a session



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
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

Individual Examination Skills Training

Physiko allows individual assessment skills training



- Pupillary reflex
- Blood pressure
- Auscultation of lung sounds
- Auscultation of heart sounds
- Auscultation of bowel sounds
- ECG simulation

DESCRIPTIONS

SPECIFICATIONS

Size: 155cm/61 in. 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
- 1 microphone

MATERIALS

Soft resin, hard resin  
 Latex free

MW10



# Cardiology Patient Simulator K Version II

## Hone your senses and skills for bedside cardiology

See, listen, and feel

The cardiology patient simulator K II 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		

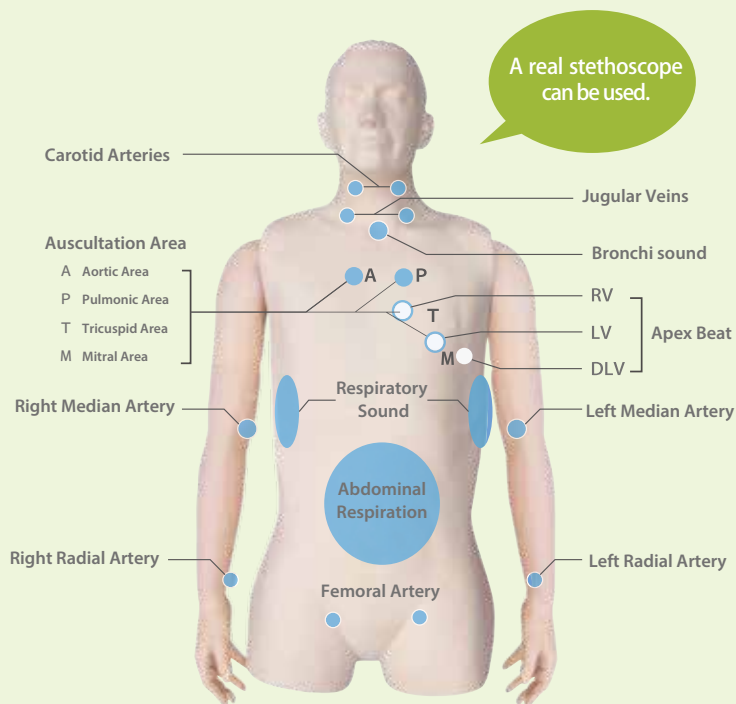
(MODE 2) Arrhythmia simulation, auscultation training with ECG

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 ectopic 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 paroxysm 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

## Basic Skill Training

## Physical findings of Simulator K Version II

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 "a" 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. Different conditions can be set in each simulator

The system allows for:

- scenario-based training involving more than one patient
- skills assessment sessions with different cardiovascular stations

## Playlist System

Simulator "K" is not just for individual task training. The incorporated "Play List Maker" facilitates creation of scenario-based training sessions with conditions that 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: W145 x D75 x H170 cm / W57 x D30 x H70 in.

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

\* A stethoscope is not included.



MW28



## Lung Sound Auscultation Trainer LSAT Version II

**Used by 96% of medical faculties in Japan**

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

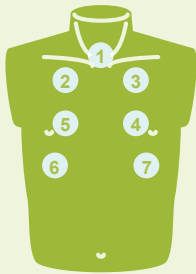
**Miscellaneous**

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



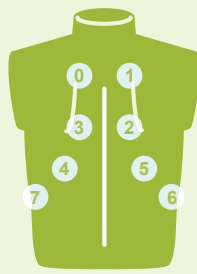
**KEY FEATURES**

**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

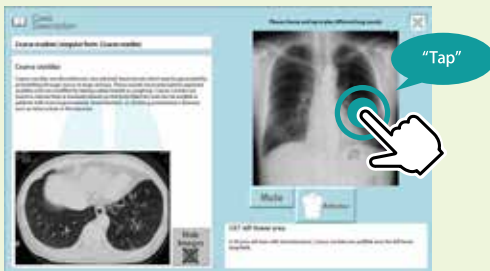


**Posterior**

- 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 costophrenic angle
- 7. left costophrenic angle

**Case Information**

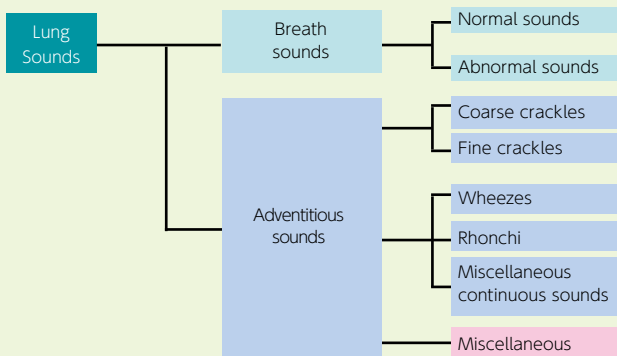
Images of plain X-ray, CT and bronchoscopy are included



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 lung sounds, each one is classified according to the American Thoracic Society's 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 tablet



- 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**

Playlist mode with 36 different cases enables optimization of training sessions

**DESCRIPTIONS**

**SET INCLUDES**

- 1 LSAT Version II main unit
- 1 external speaker incl.
- 1 tablet
- 1 LSAT T-shirt
- 1 instruction manual

**SPECIFICATIONS**

Size: W39 x D49 x H127 cm  
W15.3 x D19.3 x H50 in.  
Power: AC100V-240V 50/60Hz  
Power Consumption: 180W

**MATERIALS**

Soft resin  
Latex free

M92



## Digital Rectal Examination Simulator

This Digital Rectal Examination Simulator is a unique trainer designed for palpation training to identify rectal tumors and polyps



### FEATURES

- 1 | 4 interchangeable rectum units for identification of lesion types
- 2 | Normal prostate or endocervix can also be palpated
- 3 | Life like rectum is palpable up to 7cm deep
- 4 | High-fidelity sphincter resistance and feeling of rectum wall allow for excellent hands-on DRE training before examining actual patients

### SKILLS

- | Digital palpation of the prostate

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W37 x D28 x H30 cm  
W14.5 x D11 x H11.8 in.  
Weight: 6kg / 13.3lbs

#### SET INCLUDES

- 1 lumbar torso (unisex)
- 4 rectum units:
  - 1 normal
  - 2 rectal cancers
  - 1 rectum with polyps

- 1 prostate unit
- 1 endocervix unit
- 1 Vaseline
- 1 storage case
- 1 instruction manual

#### REPLACEMENT PARTS

- 11269-210 1 rectum unit #1 (normal)
- 11269-220 1 rectum unit #2 (cancer A)
- 11269-230 1 rectum unit #3 (cancer B)
- 11269-240 1 rectum unit #4 (rectum with polyps)
- 11269-150 1 prostate unit
- 11269-160 1 endocervix unit

M53B



## Prostate Examination Simulator

Prostate Examination Simulator provides realistic training in prostate palpation skills with its soft life-like anus and rectum material



### FEATURES

- 1 | Ten cases of prostate are set on a rotating table inside the body
- 2 | The cases are easily changeable
- 3 | Three patient positions are possible: supine, prone and lateral position

### SKILLS

- | Digital palpation of the prostate

### CASES

- | 2 normal, 2 enlargements, 5 carcinomas, 1 prostatitis

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W30 x D36 x H24 cm  
W11.8 x D14.2 x H9.4 in.

Weight: 5.1kg/ 10.9lbs

#### MATERIALS

Soft resin, Hard resin  
Latex free

#### SET INCLUDES

- 1 male lumbar torso (anus pad incl.)
- 1 rotating unit
  - 10 prostate cases: 2 normal, 2 enlargements, 5 carcinomas and 1 prostatitis
- 1 lubricant gel
- 1 pair of gloves
- 1 storage case
- 1 instruction manual

#### REPLACEMENT PARTS

- 11272-040 1 anus pad

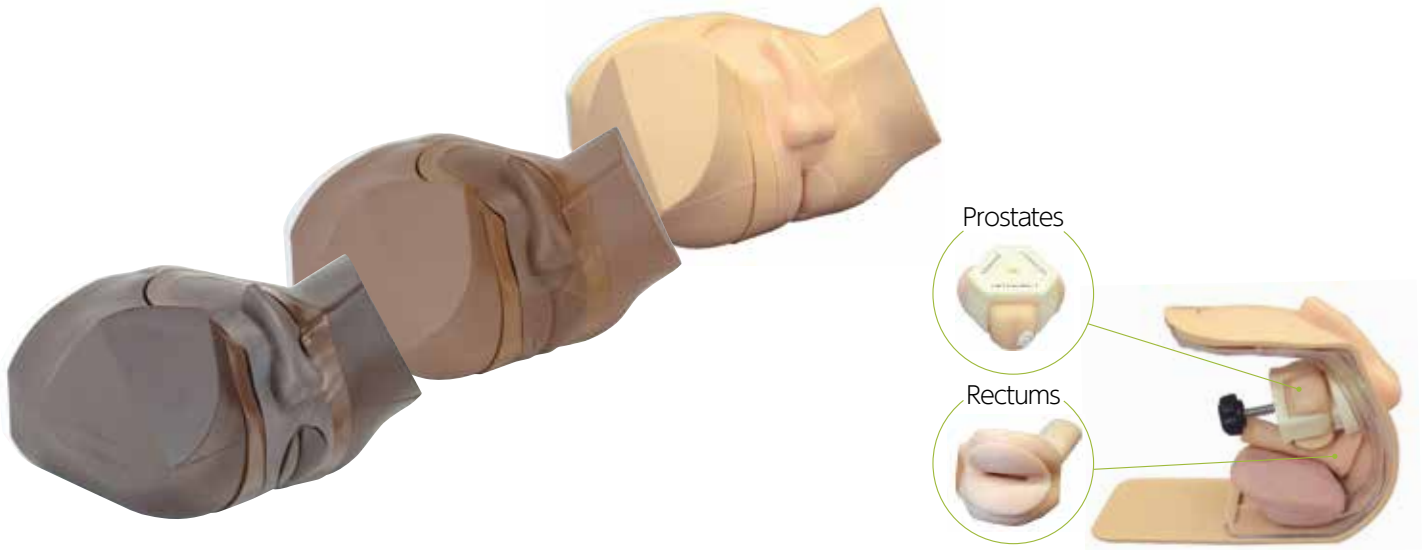
MW20



# 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 prostates
- 2 | Four rectum units
- 3 | Concurrent training with multiple prostates and rectal cases is time-efficient
- 4 | Lateral, supine and prone positioning
- 5 | The different units 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 combined with small carcinoma |

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W34 x D33 x H24 cm / W13.4 x D13 x H9.4 in.

#### SET INCLUDES

1   lower torso manikin	4   rectum units
3   prostate units (include a total of 9 types of prostates)	1   Vaseline
	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 with small carcinoma)
11399-080	skin

# 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 with pathologies
- 2 | Excellent ultrasound image quality

### SKILLS

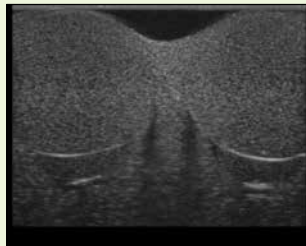
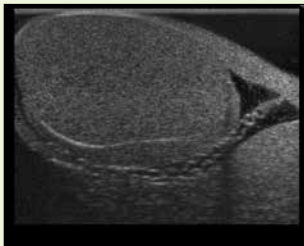
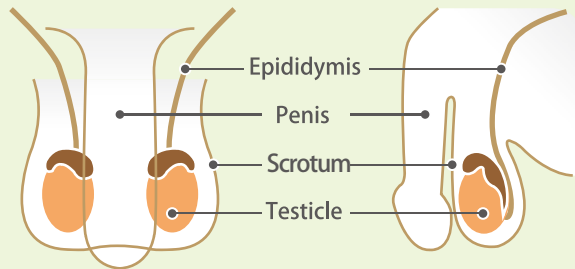
- | Patient positioning and preparation for examination
- | Scrotal ultrasound screening
- | Visualization of testicular cancer



## KEY FEATURES

### Normal phantom

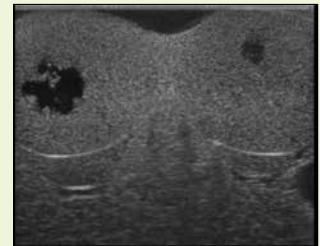
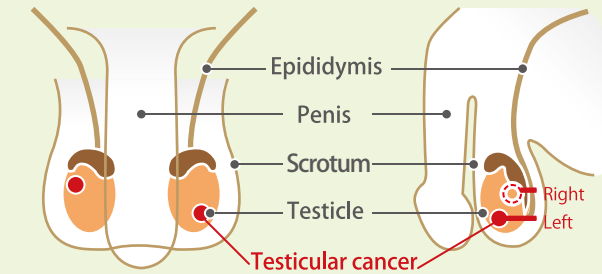
- scrotum, testicle, epididymis and penis



### Pathological phantom

-scrotum, testicle, epididymis and penis

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



## DESCRIPTIONS

### SPECIFICATIONS

Size: W34 x D33 x H24 cm/W13.4 x D13 x H9.4 in. Weight: 3.6kg / 7.9lbs

### SET INCLUDES

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

### REPLACEMENT PARTS

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

\* Ultrasound scanner is not included.

US-22



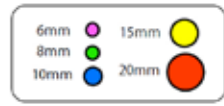
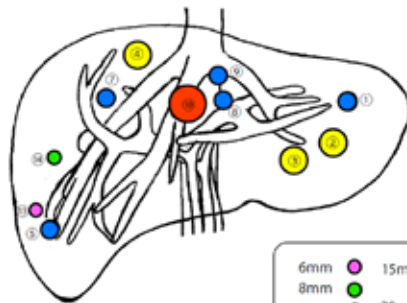
NEW

# Dual Modality Human Abdomen Phantom (CT, Ultrasound)

**This Multi-Modality Phantom is a suitable item to conduct studies and training of fusion imaging for a wide range of clinical applications (CT & Ultrasound)**



### Embedded Targets (Liver)



### FEATURES/SKILLS

- 1 | Fusion image generation training
- 2 | Mapping for biopsy (invasive procedures are not possible with this phantom)
- 3 | Surgical planning
- 4 | Radiation therapy planning
- 5 | Training for scanning skills in Ultrasound and CT



Ultrasound Images (Liver)



CT image (Liver)

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W29 x D19 x H31 cm      Weight: 12 kg/26.5 lbs  
 W11.4 x D7.5 x H12.2 in.





# 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

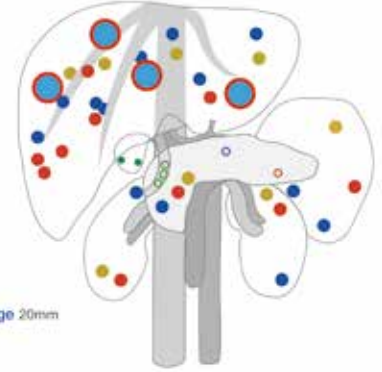
Junji Machi, MD, PhD  
University of Hawaii at Manoa and Kuakini Medical Center



Full set includes anatomical model ECHO-ZOU

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

- Simulated stone 3mm
- Simulated stone 5mm
- Simulated cysts 3mm
- Simulated cysts 10mm
- Hypoechoic 10mm
- Simulated tumors 3mm
- Simulated tumors 10mm
- Simulated tumors with double edge 20mm



### FEATURES

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

### SKILLS

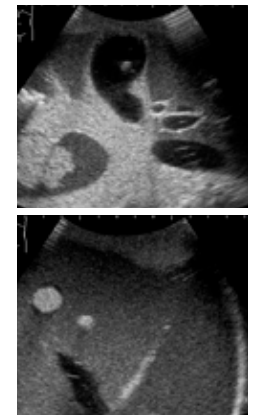
- | Basics of abdominal sonography:
  - Cross sections and sonographic anatomy
  - Sonographic demonstration of each individual organ
  - Localization of Couinaud's hepatic segments

### 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)

### Pathologies

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



## DESCRIPTIONS

### SPECIFICATIONS

Size: W29 x D19 x H31cm / W11.4 x D7 x H12.2 in. 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 talcum powder	1 positioning pillow
1 tutorial manual (DVD)	1 talcum powder
1 storage case	1 tutorial manual (DVD)
1 instruction manual	2 storage cases
	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



Full set includes anatomical model ECHO-ZOU

### FEATURES

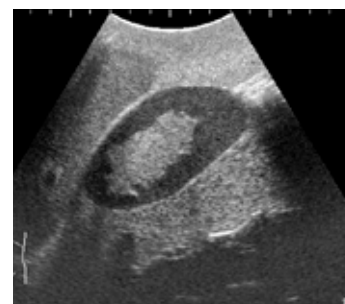
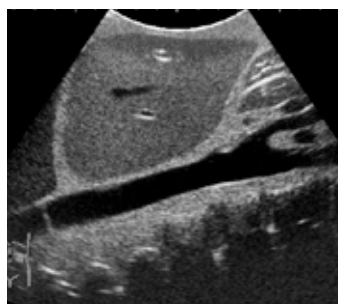
- 1 | Detailed hepatobiliary, pancreatic and other abdominal anatomy
- 2 | Eight Couinaud's hepatic segments can be localized

### SKILLS

- | Basics of abdominal sonography:
  - Cross sections and sonographic anatomy
  - Sonographic demonstration of each individual organ
  - Localization of Couinaud's hepatic 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: W29 x D19 x H31 cm / W11.4 x D7 x H12.2 in. Weight: 12kg / 26.5lbs

### MATERIALS

Polyurethane elastomer  
Latex free

### SET INCLUDES

#### US-1 (41900-010) ECHOZY

- 1 ultrasound phantom ECHOZY
- 1 set positioning pillow
- 1 talcum powder
- 1 storage case

#### US-1 (41900-000) ECHOZY full set

- 1 ultrasound phantom ECHOZY
- 1 anatomical model ECHO-ZOU
- 1 positioning pillow
- 1 tutorial manual (DVD)
- 1 talcum powder
- 2 storage cases

MW24

# 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 for 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 the three valves of Houston 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 derived 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
  - Supine
- | Manual abdominal compression

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W43 x D28 x H16 cm / W17 x D11 x H6.3 in.  
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 (with a cap and a plug)	15 colonoscopy gel
	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 (15x50ml)
11403-030	endoscope gel (15x20ml)

\* Colonoscope is not included.

M40

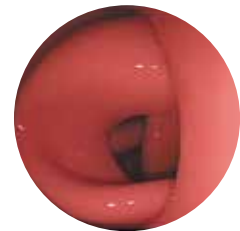


# Colonoscope Training Simulator

## Training for safe and effective colonoscopy

Soft and flexible colon tube provides a life like colonoscopy simulation

With focus on 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 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 pump

### SKILLS

- | Colonoscopy

### KEY FEATURES

#### Select training difficulty level



#### Adjustable opening of the anus



#### Positioning of the body



### DESCRIPTIONS

#### SPECIFICATIONS

Size: W48 x D22 x H30 cm / W18.9 x D8.7 x H11.9 in. 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 MW40
11361-100	plastic bottle for MW40
11361-110	stand for MW40

\* Colonoscope is not included.

US-21



NEW

# DVT (Deep Vein Thrombosis) Phantom

**For ultrasound screening of DVT (Deep Vein Thrombosis)**

Product Supervision

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



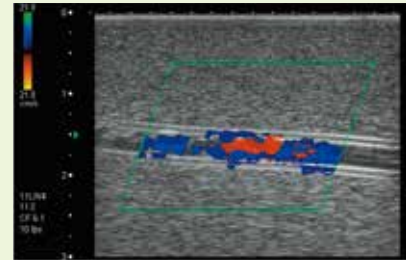
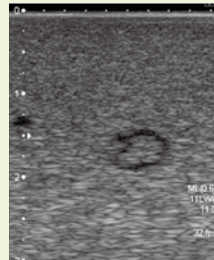
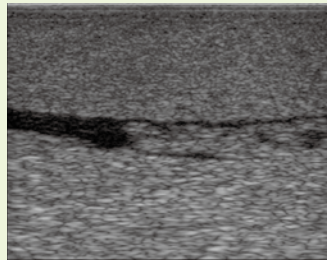
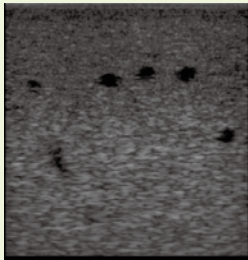
## FEATURES

- 1 | Faithful reproduction of blood vessel meandering, branching, and thrombus
- 2 | The built-in blood vessels allows for milking method as well as observation of compression of the vessels by applying pressure with a transducer
- 3 | Familiarize yourself with the assessment of venous thrombosis in the lower limbs

## SKILLS

- | Screening for deep venous thrombosis in the lower limbs
- | Observation of blood flow by milking method

## IMAGES



## DESCRIPTIONS

### SPECIFICATIONS

Size: W27 x D17 x H47 cm each  
W10.6 x D6.7x H18.5 in. each

Weight: 3.0kg each  
6.6lbs each

### SET INCLUDES

- 1 lower limb manikin
- 1 ultrasound calf phantom (incorporated)
- 1 talcum powder
- 1 storage case
- 1 instruction manual

\* Ultrasound scanner is not included.



MW9

# 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

## KEY FEATURES



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 in.

Weight: 0.9kg / 21lbs

### MATERIALS

Soft resin  
Latex free

### RECOMMENDED DEVICES

IV catheter needle 22G,  
butterfly needle 23G

### SET INCLUDES

1 arm model	1 stand for bottle of simulated blood	10 cotton swabs (red)
2 injection pads for dorsal veins of hand	1 infusion set	1 carrying bag
2 injection pads for median antebrachial vein	1 infusion bag	1 instruction manual
1 bottle for simulated blood	1 syringe (50ml)	
	1 plastic beaker	

### REPLACEMENT PARTS

11388-200	2 injection pads for median antebrachial vein
11388-300	2 injection pads for dorsal veins of hand
11388-400	10 cotton swabs red

MW49

# Simulator Intravenous ARM III

M50B-B has been renovated to meet a wider range of training requirements



## FEATURES

- 1 | Two types of injection pads for venous line placement (forearm/ back of hand)
- 2 | Two types of injection pads for cubital fossa (regular and durable)
- 3 | Arm vessels anatomy sleevelets for visual understanding

## SKILLS

- | Anatomy of the arm
- | Vacuum tube blood collection
- | Palpation /Intravenous injection
- | IV cannula placement and drip infusion
- | Blood collection with a syringe/Flash- back confirmation

Two types of injection pads for cubital fossa  
- works with circulation pump



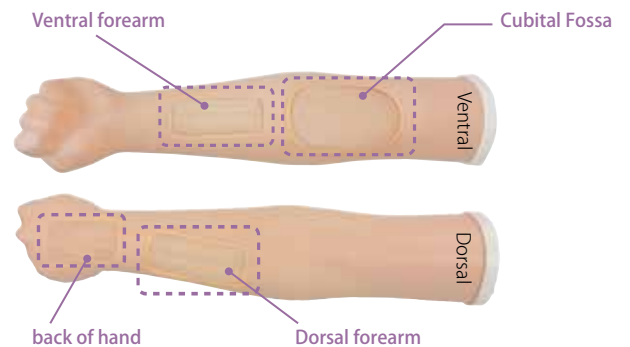
Pad for back of hand



Pad for ventral / dorsal of forearm



Four areas of puncture sites



Two types of injection pads for venous line placement  
- works with bottles/stands



### Regular pad

Realistic sensation  
Texture, sensation and resistance to the needle  
Three accessible venous lines represent basilic vein, median vein and cephalic vein

### Durable pad

Durable training pad to maximize training opportunities. Long-life tissue materials  
Both faces of the pad enclose two venous lines for training

## DESCRIPTIONS

### SPECIFICATIONS

Size : W54 x D11 x H11 cm each  
W21 x D4 x H4 in. Power : AC100-240V 50/60Hz  
Power Consumption : 5W

### SET INCLUDES

2 arm model	1 circulation pump with a plastic jar
2 supporting stand	2 bottle with stand (for sim blood)
2 injection pad (R pad)	10 cotton swabs red
2 injection pad (D pad)	2 arm vessels anatomy sleevelets
4 injection pad (forearm/antebrachial)	1 storage case
2 injection pad (back of hand)	1 instruction manual

### REPLACEMENT PARTS

11267-300-03 R pad (set of 2)
11430-020 D pad (set of 2)
11388-200 pad for forearm/antebrachial (set of 2)
11388-300 pad for back of hand (set of 2)
11267-300-02 supporting stand
11267-300-05 circulation pump
11388-400 10 cotton swabs red
11430-010 arm vessels anatomy sleevelet

### RECOMMENDED DEVICES

• IV cannula 23G
• syringe needle 23G
• butterfly needle 23G

MW50

## 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 | Two vein tubes are embedded

#### SKILLS

- | Blood collection and intravenous injection

#### DESCRIPTIONS

##### SPECIFICATIONS

Size: W12 x D14 x H2.5 cm / W4.7 x D5.5 x H0.98 in.  
W6.5 x D11 x H2.0 cm / W2.6 x D4.3 x H0.79 in. (Pad)

##### SET INCLUDES

- 5 puncture pads (vein tube embedded)
- 5 supporting frames
- 5 belts
- 5 injection bottles
- 1 instruction manual
- 1 storage case
- 5 syringes

##### MATERIALS

Soft resin  
Latex free

##### REPLACEMENT PARTS

11431-010 5 replacement puncture pads

##### OPTIONAL PARTS

11430-010 Arm Vessels Anatomy Sleevelet  
11388-400 10 cotton swab red

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: W9 x D20 x H8 cm      Weight: 0.3 kg/ 0.7 lbs  
W3.5 x D7.9 x H3.1 in.

##### SET INCLUDES

- 5 injection pads
- 1 forearm model
- 1 supporter stand
- 4 injection pad cases
- 1 instruction manual

##### MATERIALS

Soft resin  
Latex free

##### REPLACEMENT PARTS

11346-010 1 replacement puncture pad

##### RECOMMENDED DEVICES

Needle 29G

M67C

## Strap-on Intramuscular Injection Trainer

For practice between students, simulated patients and mannikin, facilitating their understanding of the intramuscular injection process and communication



### FEATURES

- 1 | The water tank is located inside this trainer
- 2 | Realistic tactile feeling of skin and acromion allows palpating the anatomical landmark
- 3 | Easy to drain

### SKILLS

- | Intramuscular Injection training
- | COVID-19 vaccination training

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W10.5 x D26 x H5.5 cm  
W4.2 x D10.3 x H2.2 in.

#### SET INCLUDES

- 1 | main unit  
(frame, skin, soft tissue, muscle,  
acromion, drainage reservoir, belts)
- 1 | instruction manual

#### MATERIALS

Soft resin  
Latex free

#### RECOMMENDED DEVICES

IM needle 23G

#### REPLACEMENT PARTS

- 11297-220 replacement skin
- 11297-230 replacement soft tissue part
- 11297-240 replacement muscular part

MW64

## Vaccination Training Set

MW64 Vaccination Training Set will undeniably help in training thousands of healthcare workers who are involved in COVID-19 vaccination. It's simple, easy to use and low-maintenance



### FEATURES

- 1 | The landmark acromion process is palpable, allowing for realistic practice of IM injection
- 2 | The injection pad has a highly absorbent sponge built in, so that you can actually inject the liquid repeatedly
- 3 | This vaccination training set can be used together with Kyoto Kagaku patient care manikins, SPs and trainees

### SKILLS

- | Deltoid intramuscular injection
- \*The pad's depth is 1 1/2" (38.1mm)

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W12 x D14 x H5.5 cm  
W4.7 x D5.5 x H2.2 in.

#### SET INCLUDES

- 5 | vaccination training pads
- 5 | pad holders
- 5 | strap-on belts
- 1 | instruction manual

#### MATERIALS

Soft resin  
Latex free

#### RECOMMENDED DEVICES

IM needle 23G

#### REPLACEMENT PARTS

- 11454-010 Pad for Vaccination Training Set (Set of 5)
- 11454-020 Pad for Vaccination Training Set

M74



# Gluteus Maximus Injection Simulator

## IM training for the three ways of injection

This simulator is designed to practice for the three ways of injection into the hip and the buttocks. The incorporated indicator shows the accuracy of needle placement and its depth

### Product Supervision

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



### FEATURES

- 1 | The life-sized lower torso manikin consist of three layers: skin, muscular and skeleton
- 2 | Greater trochanter, anterior superior iliac spine and scrum can be palpated to identify the injection sites
- 3 | Three methods for intramuscular injection: Quarter-Trichotomy, Hochstetter Method and Clark Method
- 4 | The indicator shows the accuracy of the needle placement and its depth
- 5 | Correct needle placement can be confirmed by being able to inject liquid
- 6 | No needle trace remains

### SKILLS

| Intramuscular injection



Hochstetter Method



Clark / Sachtleben Method

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W32 x D35 x H20 cm      Weight: 3.2kg / 7.05lbs  
W12.6 x D14 x H8 in.

#### SET INCLUDES

- 1 lower torso manikin
- 1 stand for Hochstetter method
- 1 indicator
- 1 set of sensor pads
- 1 instruction manual

#### MATERIALS

Soft resin  
Latex free

#### REPLACEMENT PARTS

- 11213-010 skin
- 11213-020 sensor for puncture pad
- 11213-030 sensor for Hochstetter's site
- 11213-040 sensor for Clark's site

#### RECOMMENDED DEVICES

IM needle 21-23G



M99



# 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 counter-flow
- 4 | Radial arterial line placement can be simulated
- 5 | No puncture trace remains on the injection site
- 6 | Leak-free connections

### SKILLS

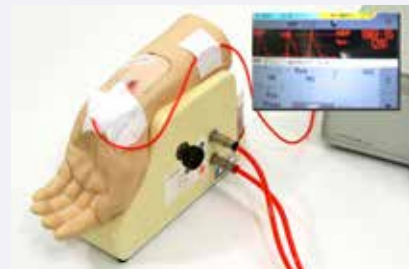
- | Radial arterial puncture
- | Artery blood sampling
- | Radial line placement



Radial Arterial Puncture



Radial Arterial Line Placement



IABP Measurement  
(Arterial pressure values are not simulated)

### DESCRIPTIONS

For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

#### SPECIFICATIONS

Size: W11 x D30 x H17 cm / W4.3 x D11.8 x H6.7 in. (manikin size)  
W20 x D16 x H13 cm / W7.9 x D6.3 x H5.1 in. (pump size)

Weight: 1.5kg/3.3lbs  
Power: AC100-240V, 50/60 Hz

#### MATERIALS

Soft resin  
Latex free

#### RECOMMENDED DEVICES

AGB Kit 22-25G

#### REPLACEMENT PARTS

11351-010 1 replacement skin set  
11351-030 4 replacement silicon tape  
11351-040 4 replacement artery tube  
11388-400 10 cotton swabs red

#### SET INCLUDES

1 wrist and hand model	10 cotton swabs red	1 syringe
1 circulation pump	1 spoon	1 storage case
2 sets of puncture skins (inner and outer skin)	2 plastic jars	1 instruction manual
4 artery tubes	2 connection tubes	
1 silicon tape	1 vinyl sheet	

#### SET VARIATIONS

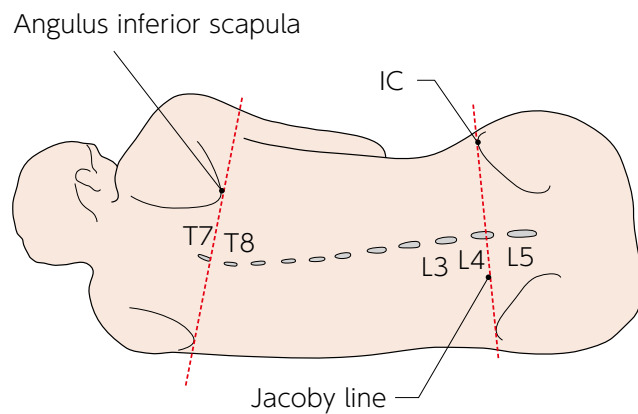
11351-000 M99 light skin tone  
11351-000-D M99 dark skin tone

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 as median approach

### SKILLS

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

### KEY FEATURES



Landmark palpation



Epidural anesthesia



Lumbar puncture

### SPECIFICATIONS

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

Weight: 5kg / 11lbs

### SET INCLUDES

- 1 life size unisex torso
- 5 puncture pads
- 1 supporting stand
- 1 50ml syringe
- 1 drain pouch
- 1 instruction manual

### DESCRIPTIONS

#### MATERIALS

Soft resin  
Latex free

#### REPLACEMENT PARTS

11382-010 2 replacement puncture pads

#### RECOMMENDED DEVICES

Epidural needle: 18G  
Spinal needle: 21G

M43B/M43B-B



# Lumbar Puncture Simulator IIA

## 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

- Anatomically accurate
- Realistic skin and tissue resistance during insertion
- Measure CSF fluid pressure, collect CSF fluid and practice epidural anesthesia procedures
- Simulates administration of epidural nerve block with realistic needle-tip sensation
- Simulates loss of resistance technique
- 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
- normal
  - obese
  - senior
  - senior obese
  - epidural



### DESCRIPTIONS

For product codes of the alternate skin tone versions of this model, please refer to [www.kyotokagaku.com](http://www.kyotokagaku.com).

#### SPECIFICATIONS

Size: W33 x D22 x H30 cm      Weight: 3.15kg / 6.9lbs  
 W13 x D8.7 x H11.8 in.

#### MATERIALS

Soft resin  
 Latex free

#### SET VARIATIONS

11348-600	M43B light skin tone
11348-600-D	M43B dark skin tone
11348-999	M43B-B light skin tone
11348-999-D	M43B-B dark skin tone

#### 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
11348-160	1 supporting stand

#### SET INCLUDES

		M43B	M43B-B	
1 lumbar region model	2 lumbar puncture blocks	✓	✓	1 irrigation bag
1 lumbar region skin cover	2 normal CSF	✓	✓	1 syringe
1 two way support base	1 obesity CSF	✓	✓	1 stand for irrigation bag
1 base for team teaching	1 senior CSF	✓	✓	1 instruction manual
	1 senior obesity CSF	✓	✓	1 storage case
	1 epidural	✓	✓	
	1 lumbar spine model	✓	✓	

M43E



# Ultrasound Compatible Lumbar Puncture/ Epidural Simulator

## Lumbar puncture training with ultrasound guidance

Anatomically correct puncture block offers excellent ultrasound images



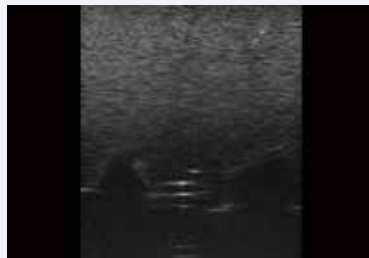
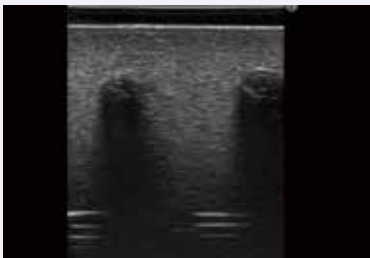
### FEATURES

- 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 in.

#### SET INCLUDES

- |   |                      |
|---|----------------------|
| 1 lumbar region model                       | 1 irrigation bag     |
| 1 ultrasound lumbar puncture/epidural block | 1 syringe            |
| 1 ultrasound lumbar region skin cover       | 1 instruction manual |
| 1 two way support base                      |                      |

#### MATERIALS

Soft resin, polyurethane elastomer  
Latex free

#### REPLACEMENT PARTS

- |           |  |
|-----------|--|
| 11348-190 | 1 ultrasound lumbar puncture /epidural block   |
| 11348-230 | 1 ultrasound lumbar region skin cover for M43E |
| 11348-160 | 1 supporting stand                             |

#### RECOMMENDED DEVICES

Ultrasound machine and needles are not included.



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 syringe (50ml)	✓	✓	✓	✓x2
1 joint hose			✓	✓
1 tube with three-way stopcock	✓	✓		✓
1 plastic jar	✓	✓		✓



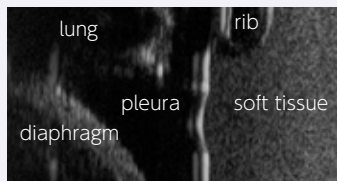
## Thoracentesis

### Simulate thoracentesis on both a torso and SP

This Ultrasound-Guided Thoracentesis Simulator features two types of puncture units: mid-scapular line access and mid-axillary line access. Strap-on (wearable) puncture units facilitate 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

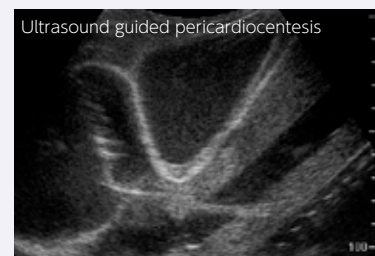
This simulator allows trainees to insert the needle under ultrasound guidance, pierce the "pericardial sac" and aspirate pericardial fluid

#### 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 space" (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: W40 x D25 x H50 cm / W15.7 x D9.9 x H19.7 in.  
 Thoracentesis pad size: W16 x D7 x H21 cm / W6.3 x D2.76 x H8.3 in.  
 Pericardiocentesis pad size: W16 x D14 x H21 cm / W6.3 x D5.6 x H8.3 in.  
 Weight: 9.65kg / 21.27lbs

#### MATERIALS

Soft resin, hard resin  
 Latex free

#### REPLACEMENT PARTS

11383-010 2 mid-axillary line puncture pads  
 11383-020 2 mid-scapular line unit puncture pads  
 11383-030 2 replacement lungs  
 11394-010 2 pericardiocentesis pads for MW15/MW17

#### RECOMMENDED DEVICES

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

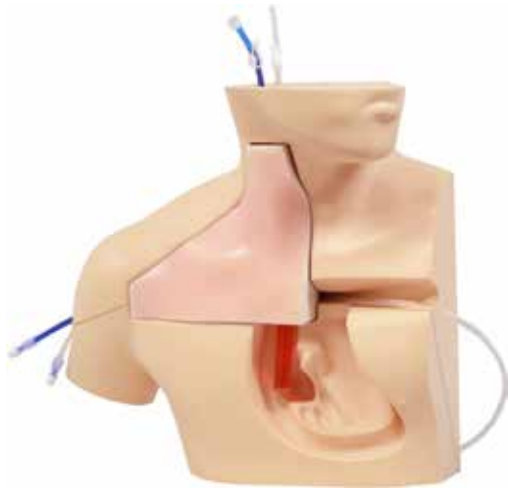
M93C



# 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

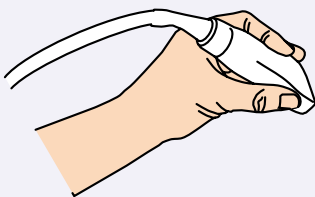
- 1 | Insertion practice is repeatable to obtain the best technique for patient safety
- 2 | Both landmark guided insertion and ultrasound guided techniques can be practiced
- 3 | The frictionless tissue-like simulation pad to facilitate a realistic sensation of the CVC placement

## SKILLS

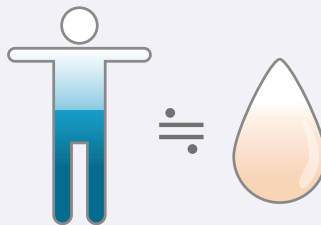
Take complete steps to a successful CVC insertion

- | 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

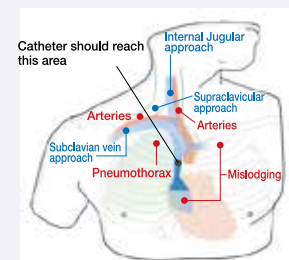
## KEY FEATURES



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 in.

### SET INCLUDES

1 male upper torso manikin	2 vein tubes (blue): 2 type
2 CVC placement pads	2 vein pipes
1 skin for cannulation training	1 pulsation unit (for landmark technique)
1 transparent anatomical block	1 irrigation bottle (for UG technique)
2 artery tube (transparent): 2 type	1 plastic jar

### MATERIALS

Soft resin, hydrogel, hard resin  
Latex free

1 sample needle
2 syringes (2.5ml, 50ml)
1 introductory ultrasound training block REAL VESSELS

### REPLACEMENT PARTS

11347-210	2 introductory ultrasound training blocks REAL VESSEL
11347-240	2 CVC placement pads
11347-260	1 pulsation unit
11347-320	1 irrigation bottle

Ultrasound scanner and needles are not included.

M93UB



# CVC Insertion Simulator II

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



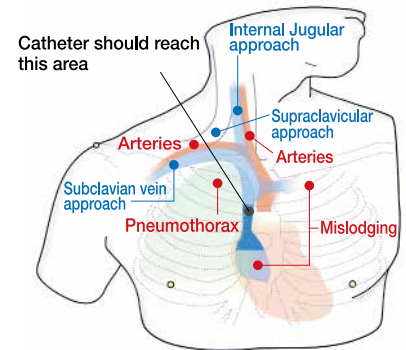
## Product Supervision

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 13.4 in.

Weight: 2.3kg/5lbs

### MATERIALS

Soft resin  
Latex free

### REPLACEMENT PARTS

11347-119	2 landmark puncture pads
11347-170	2 ultrasound puncture pads
11347-210	2 introductory ultrasound training blocks
11347-320	irrigation bottle
11388-400	10 cotton swab red
11402-010	10 cotton swab blue

### SET INCLUDES

1 male upper torso manikin	1 introductory ultrasound training block
1 landmark puncture pad	10 cotton swab red
1 ultrasound puncture pad	10 cotton swab blue
1 skin for cannulation training	1 air bulb
1 transparent anatomical block	2 plastic jars

1 irrigation bottle
2 syringes (2.5ml, 50ml)
1 sample needle

Ultrasound scanner and needles are not included.

MW18



# Ultrasound-Guided PICC Training Simulator

## New, innovative, human-like material for perfect visualization

A uncomplicated 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

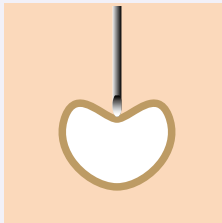
### SKILLS

- | 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: W79 x D38 x H18 cm      Weight: 4.5kg/10lbs  
W31 x D14.9 x H7 in.

#### SET INCLUDES

- |                                       |                      |
|---------------------------------------|----------------------|
| 1 male upper torso with the right arm | 1 instruction manual |
| 2 PICC puncture pads                  | 1 storage case       |
| 10 cotton swabs red                   |                      |
| 1 jar                                 |                      |
| 1 syringe                             |                      |

#### MATERIALS

Soft resin, hard resin  
Latex free

#### REPLACEMENT PARTS

- |           |                      |
|-----------|----------------------|
| 11398-010 | 2 PICC puncture pads |
| 11388-400 | 10 cotton swabs red  |

#### RECOMMENDED DEVICES

PIC catheter 4Fr., 50-60cm

Ultrasound scanner and PICC instruments are not included.

M93B



## Introductory Ultrasound Training Block REAL VESSEL

Provides training in hands-eye coordination and basic skills in ultrasound-guided venous access



### FEATURES

- 2 simulated vessel lines: straight and curving
- Lines have slope represent vessels with different depth
- Vessel wall yields under pressure of a needle tip

### SKILLS

- Visualization and localization of the vessels
- Probe manipulation
- Basics for ultrasound-guided vessel access

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W10.5 x D26 x H5.5 cm  
W4.2 x D10.3 x H2.2 in.

#### SET INCLUDES

- 5 vaccination training pads
- 5 pad holders
- 5 strap-on belts
- 1 instruction manual

#### MATERIALS

Soft resin  
Latex free

#### RECOMMENDED DEVICES

IM needle 23G

#### REPLACEMENT PARTS

- 11454-010 MW64 Pad for Vaccination Training Set (Set of 5)
- 11454-020 MW64 Pad for Vaccination Training Set

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

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

#### MATERIALS

-

#### REPLACEMENT PARTS

- 11230-010 40 pieces suturing sheet (skin)

\* Instruments are not included.





# 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, lifelike softness and anatomy of the intestinal wall and dermis.

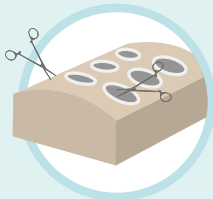


### FEATURES

- 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

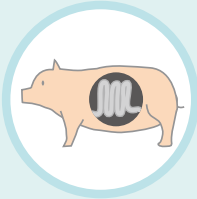
- | Laparoscopic intestinal suture
- | Skin suture under direct vision
- | Handling of laparoscopic instruments



#### Box trainer only

**Disadvantage** Limited to simple tasks

**Advantage** Easy to use



#### Wet-lab

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

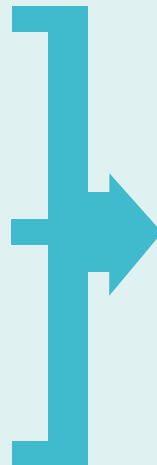
**Advantage** Realistic



#### 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

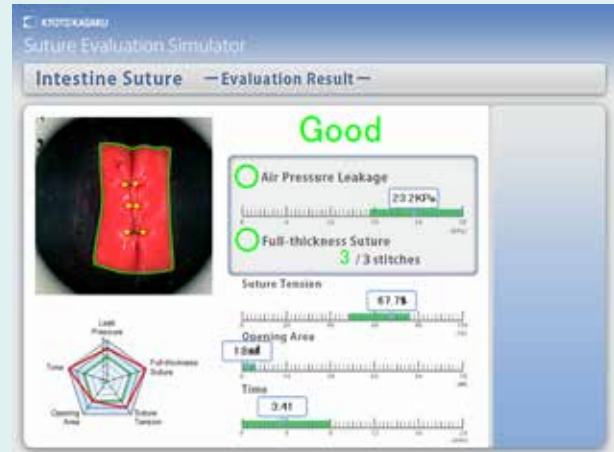
### 1 | Quantitative Feedback combined with Realistic Hands-on Experience

#### 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 the mucosal layer?
- 5 How long does the suturing procedure take?

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 | Lifelike 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  
W19.7 x D43.3 x H63 in. Weight: 93 kg/205lbs Power: AC100-240V, 50/60 Hz  
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
	1 instruction manual
	30 suturing sheets (intestinal tract)
	40 sheets of simulated skin

##### RECOMMENDED DEVICES

-  
Forceps are not included.

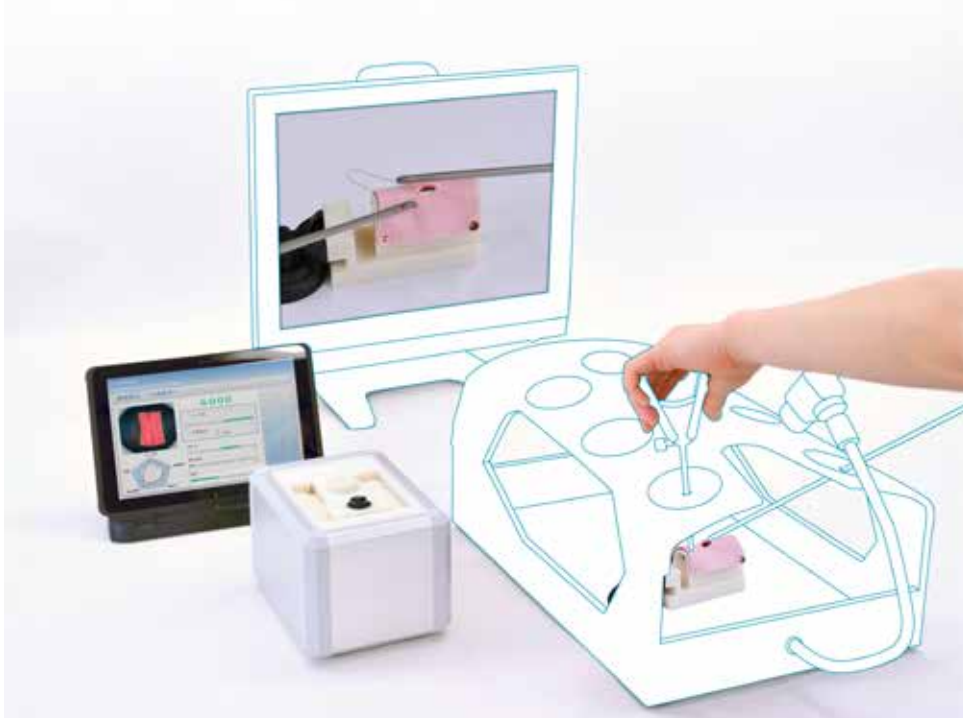
##### REPLACEMENT PARTS

11395-010	30 suturing sheets (intestinal tract)
11230-010	40 sheets of simulated skin



# Laparoscopic Suture Training System Laparo Cube

## Quantitative Feedback combined with Realistic Hands-on Experience



### 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

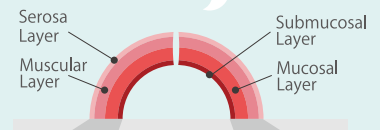
- 1 | Is the wound sutured without a leak?
- 2 | Is suture completed through muscular layer to mucosal layer?
- 3 | Is ligature appropriate for suture?
- 4 | How much open area is there in mucosal layer?
- 5 | How long does it take for suturing procedure?



#### 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

Size: W15 x D20 x H13 cm  
W5.9 x D7.9 x H5.1 in.

Weight: 1.5kg / 3.3lbs  
(Assessment unit)

Power: AC100V-240V  
Power Consumption:  
26VA : Assessment unit  
40VA : PC

50/60Hz

#### MATERIALS

Soft resin  
Latex free

#### 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	30 pieces of suturing sheet (intestinal tract)
1 cable	1 container
1 USB Cable	1 instruction manual

#### REPLACEMENT PARTS

11395-010 30 pieces of suturing sheet  
\*1 set consist of inner layer& outer layer

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

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 maintain tension in the tubular models
- 4 | 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

## KEY FEATURES



Abdomen



Blood vessel



Intestine



Limbs

## DESCRIPTIONS

### 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       |



# Abdominal Intraoperative & Laparoscopic Ultrasound Phantom IOUSFAN

## Effective training tool for abdominal intraoperative ultrasound examination

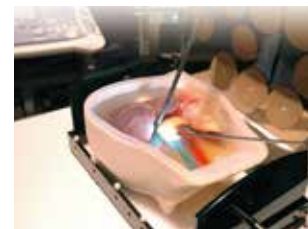
Phantom of abdominal organs to simulate ultrasound examinations during open and laparoscopic surgery

### Product Supervision

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



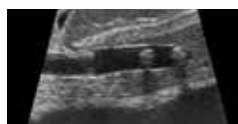
Intraoperative ultrasound



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

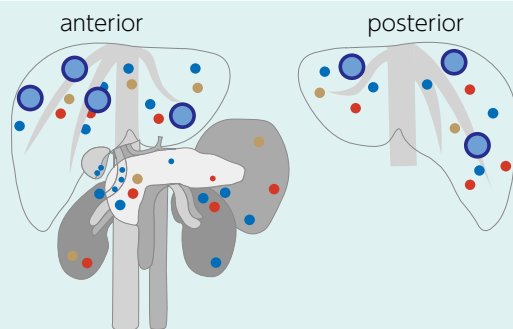
- | aorta
- | vena cava
- | celiac artery and branches
- | portal vein and branches
- | superior mesenteric vessels
- | renal vessels

#### 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 in.

#### SET INCLUDES

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

#### MATERIALS

Polyurethane elastomer  
Latex free

\*Ultrasound scanner is not included.





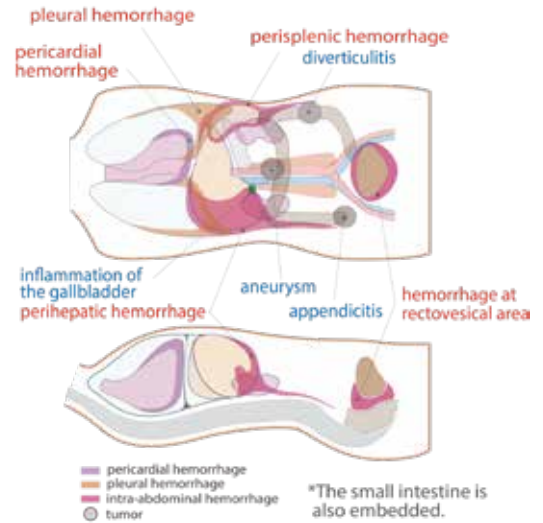
# FAST/Acute Abdomen Phantom FAST/ER FAN

## 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



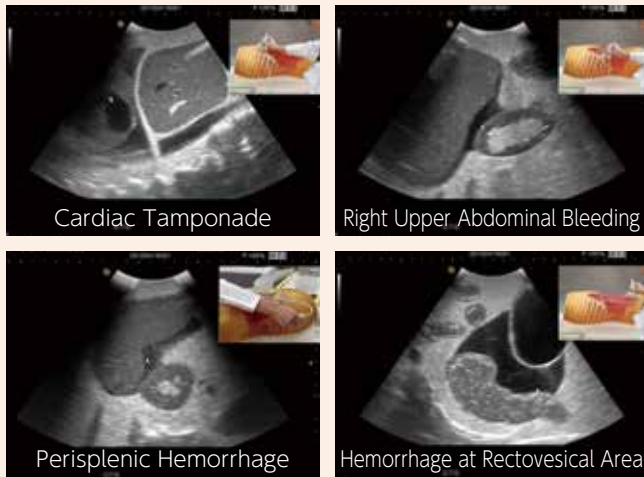
### FEATURES

- 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

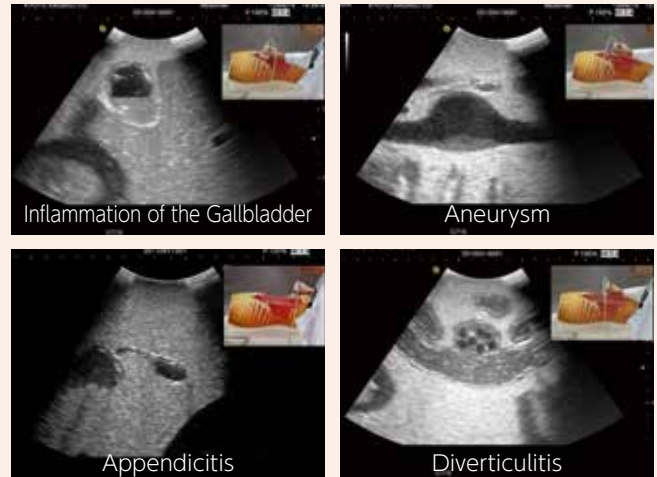
### SKILLS

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

### FAST



### Acute abdomen



### DESCRIPTIONS

#### SPECIFICATIONS

Size: W62 x D30 x H25 cm      Weight: 30kg / 66lbs  
W24.4 x D11.8 x H9.8 in.

#### MATERIALS

Polyurethane elastomer  
Latex free

#### SET INCLUDES

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

\*Ultrasound scanner is not included.

MW11



# Difficult Airway Management Simulator -Assessment System-

## Enhance your intubation technique to ensure and maximize patient safety

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.

### Product Supervision

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



#### 1 Intubation Result Display

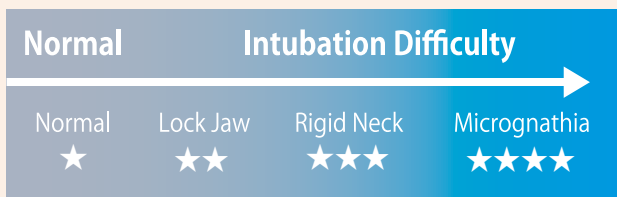
Successful intubation is defined as dual-lung ventilation within the time limit

#### 2 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**

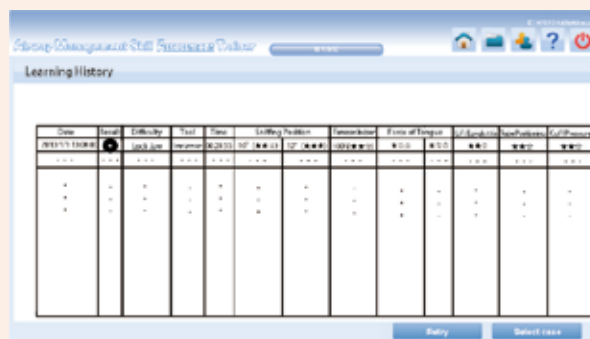
**Records of Personal Training History Support Skills Development**

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 in.

Weight: 82 kg/181lbs

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

**MATERIALS**

Soft resin  
Latex free

**SET INCLUDES**

- 1 unit base including 1 video camera, 1 monitor, 1 manikin
- 1 printer
- 1 stereo mini plug

- 1 keyboard
- 1 lubricant for manikin
- 1 instruction manual

**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

- 11229-050 lubricant
- 11390-020 sensor (blade force and position)
- 11392-070 band for face skin

\* Instruments are not included.

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



### 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

### 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

### Variation of DAM Setting



Neck Flexibility  
(Life-like jaw movement)



Mouth Opening  
- Normal  
- Intermediate  
- Difficult



Tongue  
- Normal  
- Swollen

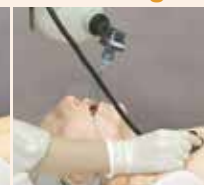


Laryngospasm  
- Normal  
- Laryngospasm

### Variation of DAM Training



Bag-Valve-Mask  
Ventilation



Confirmation of  
Endotracheal Tube  
Placement



A Variety of  
Possible Airway Skills

## DESCRIPTIONS

### SPECIFICATIONS

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

Weight: 7kg / 15.4lbs

### SET INCLUDES

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

### SET VARIATIONS

- 11392-000 MW13 light skin tone
- 11392-000-D MW13 dark skin tone

### MATERIALS

- Soft resin
- Latex free

### REPLACEMENT PARTS

- 11392-010 10 upper incisors
- 11392-090 1 face mask II light tone
- 11392-040 1 chest cover light tone
- 11392-080 2 replacement tongues II
- 11392-050 5 pair of lungs
- 11392-060 5 stomachs
- 11229-050 lubricant
- 11392-040-D 1 chest cover dark tone
- 11392-090-D 1 face mask II dark tone with band
- 11392-070 band for face skin

### 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

### OPTIONAL PARTS

- 11384-100 bronchofiberscopy training unit

\* Instruments are not included.



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 in.      Weight: 2.7kg/ 5.95lbs

#### 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.

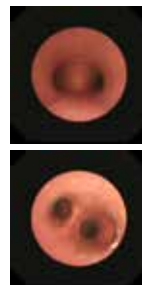
MW19



# 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 in.      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 II
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

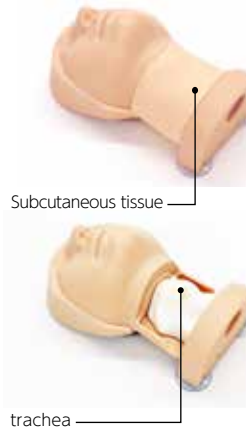
\* Instruments are not included.



MW60

# Tracheostomy Simulator

Simulator for percutaneous tracheostomy, puncture and incision of cricothyroid ligament



## FEATURES

- 1 | Anatomically correct cricoid cartilage and thyroid cartilage with life-like senses of touch
- 2 | Multiple use possible by rotation of neck skins
- 3 | Adhesive discs to hold the manikin head in place during the procedure

## SKILLS

- | Percutaneous tracheostomy
- | Puncture and incision of cricothyroid ligament

## DESCRIPTIONS

### SPECIFICATIONS

Size: W13.5 x D24 x H12.5cm    Weight: 1.7kg  
W17.7 x 7.9 x H9.8 in.        3.7lbs

### SET INCLUDES

- 1 main body
- 1 skin for tracheostomy(set of 3)
- 1 subcutaneous tissue for tracheostomy(set of 3)
- 1 cricoid cartilage
- 1 instruction manual

### MATERIALS

soft resin, Hard resin  
Latex free

### REPLACEMENT PARTS

- 11442-010 Skin for tracheostomy (set of 3)
- 11442-020 subcutaneous tissue for tracheostomy (set of 3)

MW45



# Nasopharyngeal Swab Collection Simulator

For training to healthcare professionals who conduct virus testing for the first time



## FEATURES

- 1 | When swab reaches the right position in the nasal cavity, the swab will be pigmented in blue
- 2 | Ways to use tongue depressor with swabs can be practiced
- 3 | The shape of the left and right nasal cavity is different
- 4 | The product comes with a cross sectional model

## SKILLS

- | Training to healthcare professionals who conduct virus testing for the first time

## DESCRIPTIONS

### SPECIFICATIONS

Size: W42 x D23 x H38 cm / W16.8 x D9.2 x H15.2 in.    Weight: 2.15 kg / 4.73 lbs

### MATERIALS

Soft resin, Hard resin  
Latex free

### SET INCLUDES

- 1 main model
- 1 cross sectional model
- 1 syringe (10ml)
- 1 disposable cup
- 10 cotton swab blue (set of 10)
- 1 instruction manual
- 1 storage case
- 6 replacement pads

### REPLACEMENT PARTS

- 11426-010 replacement pad (set of 5)
- 11402-010 cotton swab blue (set of 10)

# Elementary Cubic Phantom BLACKCUBE

**Acquire skills to envision three-dimensional shapes from two-dimensional sections (echo images)  
For elementary training of ultrasound scanning**

### Product Supervision

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



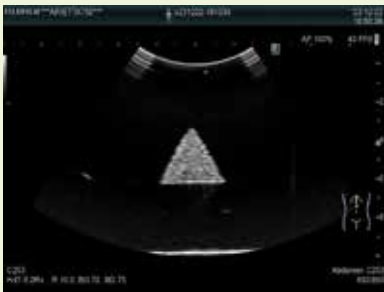
### FEATURES

- 1 | Each cube contains a geometrical three dimensional object, which is externally invisible
- 2 | All six surfaces of the cube allow for scanning
- 3 | Facilitates learning the basics of grasping three-dimensional shapes with a ultrasound scanner
- 4 | Combinations of different cubes allow for skills assessment as well as practical trainings

### SKILLS

- | Visualization and measurement of geometrical objects with a ultrasound scanner
- | Infer three dimensional shape based of 2-D ultrasound images from six surfaces

### First section



### Second section



### 3-D shape



### Set Variations

	Basic set 41955-000	Full set 41955-100
Sphere (large)	●	●
Sphere (small)	●	●
Double sphere	●	●
Ellipsoid	●	●
Cylinder	●	●
Cone	●	●
Triangular pyramid		●
Star shaped prism		●

### DESCRIPTIONS

#### SPECIFICATIONS

Size: W10 x D10 x H20 cm each  
W3.9 x D3.9 x H3.9 in. each

Weight: 1.0kg each  
2.2lbs each

#### SET INCLUDES

- 6-8 types of ultrasound phantom cube
- 1 talcum powder
- 1 storage case
- 1 working book
- 1 instruction manual

\* Ultrasound scanner is not included.

US-18



# Fundamental Ultrasound Phantom

This oval phantom helps sonographers with basic trainings

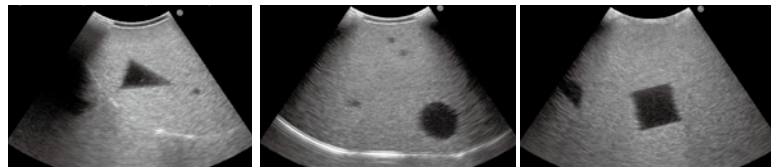


### FEATURES

- 1 | Phantom for basic manipulation of ultrasound transducer
- 2 | Recognition of shape, echogenicity, distance, and practice of horizontal transducer works

### 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 H10 cm / W9.5 x D6.3 x H3.9 in. Weight: 2kg/ 4.4lbs

#### SET INCLUDES

- 1 phantom
- 1 targets layout diagram
- 1 talcum powder
- 1 storage case

#### MATERIALS

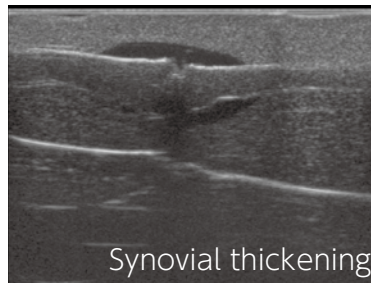
Polyurethane elastomer  
Latex free

\*Ultrasound scanner is not included.

US-17



# Rheumatoid Hand Phantom



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

### FEATURES

- 1 | For skills training of 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: W17 x D5 x H21 cm / W6 x D2 x H8 in. Weight: 0.6kg/ 1.32lbs

#### SET INCLUDES

- 1 hand manikin
- 1 instruction manual
- 1 storage case
- 1 talcum powder

#### MATERIALS

Polyurethane elastomer  
Latex free

\*Ultrasound scanner is not included.

# Human Anatomy Model Mr. A1A

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.



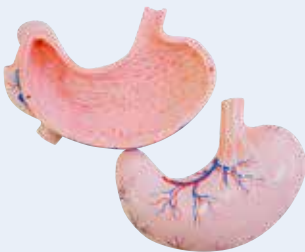
A1A

## Human Anatomy Torso (dual sex)

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



2, The stomach can be opened to see the inner structures



3, Improvements to the abdominal cover make the handling of the model much safer

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



### SPECIFICATIONS

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

### DESCRIPTIONS

#### MATERIALS

Soft resin  
Latex free

A2D

### Dissectible Anatomy of Arm (parts)

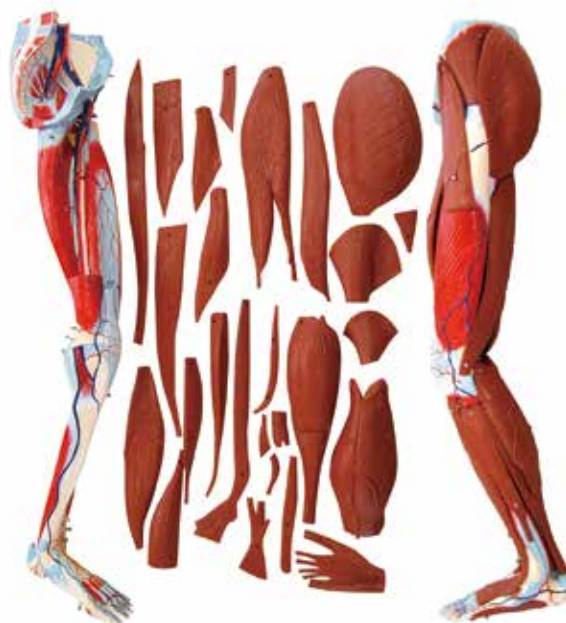
90 anatomical anecdotes are included in this model. Made of rigid plastic and is 27.2 inch high. It is mounted on a base with a supporting rod



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

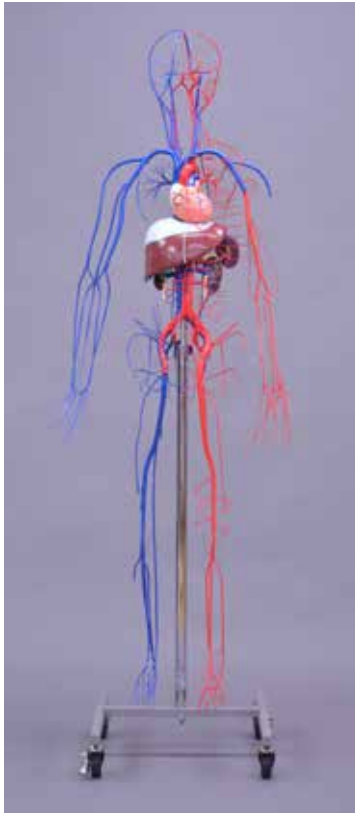
### Nerves and Vessels of Arm

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





## Circulatory System Model Life-sized



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



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

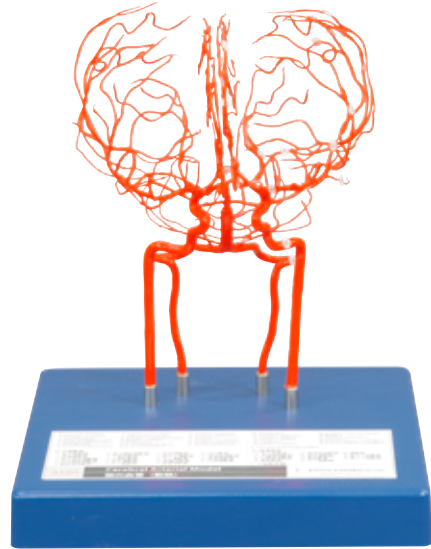
The left half of the skull reveals the brain and the medulla oblongata. The nerves are fully shown, and the model is mounted on a metal stand for a total height of 51.2 in.



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



A48-1

## Bronchus and Pulmonary Vessels Model

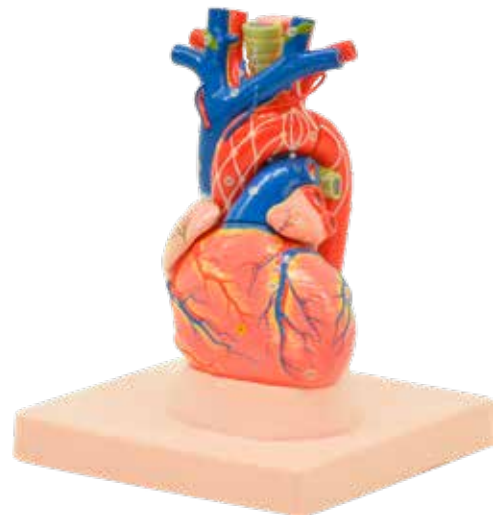
This model shows in detail the relation between the bronchus, the pulmonary arteries, and veins which clearly shows how the arteries and veins are distributed to the right and left lungs



A59

## Heart Anatomy B

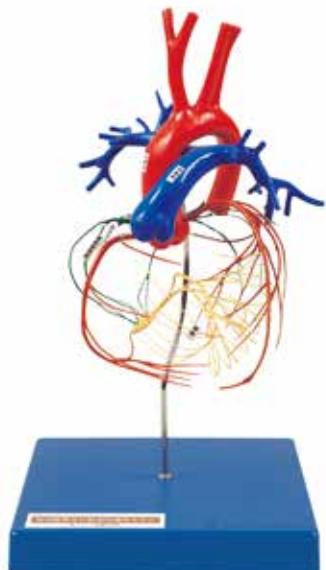
This life-sized heart is dissectible into 6 parts. The esophagus, trachea and aorta descending aorta are removable. Comes with anatomical anecdotes. Approx. 10 inches



A142

### Coronary Artery and Conducting System Model

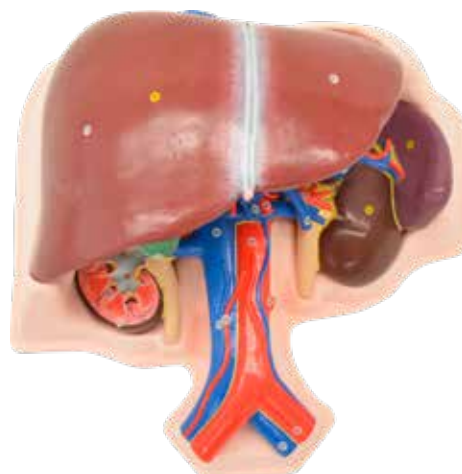
This model replicates the location of the impulse conducting system and coronary arteries in the human heart. It is useful for primary guidance in scientific education



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



A136

### Coronary Arterial Model

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



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