## CONTENTS

**1. Obstetrics / Neonatal / Pediatric / Gynecology Patient Care Physical Examination**

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female Pelvic Ultrasound Phantom</td>
<td>US-10</td>
</tr>
<tr>
<td>Breast Ultrasound Examination Phantom &quot;BREAST FAN&quot;</td>
<td>US-6</td>
</tr>
<tr>
<td>Obstetric Examination Simulator</td>
<td>MW34</td>
</tr>
<tr>
<td>Uterine Involution Assessment Simulator</td>
<td>MW38</td>
</tr>
<tr>
<td>Newborn Vital Signs Examination Simulator</td>
<td>M58</td>
</tr>
<tr>
<td>Oral Care Simulator Advanced</td>
<td>MW29</td>
</tr>
<tr>
<td>Tube Feeding Simulator (NG, OG and PEG)</td>
<td>MW8</td>
</tr>
<tr>
<td>Head and Neck Palpation Trainer</td>
<td>MW2810</td>
</tr>
<tr>
<td>Scrotal Ultrasound Phantom</td>
<td>US-11</td>
</tr>
<tr>
<td>Fetus Ultrasound Examination Phantom &quot;SPACE FAN-ST&quot;</td>
<td>US-7α</td>
</tr>
<tr>
<td>Ultrasound Guided Breast Biopsy Phantom</td>
<td>US-9</td>
</tr>
<tr>
<td>Obstetric Training Simulator -complete set-</td>
<td>MW40</td>
</tr>
<tr>
<td>NCPR Simulator</td>
<td>MW32</td>
</tr>
<tr>
<td>Pediatric Patient Care Simulator</td>
<td>M56B</td>
</tr>
<tr>
<td>Patient Care Simulator &quot;Yaye&quot;</td>
<td>MW25</td>
</tr>
<tr>
<td>Basic Patient Care Simulator &quot;Keiko&quot;</td>
<td>M85</td>
</tr>
<tr>
<td>Airway Suction Trainer</td>
<td>MW26</td>
</tr>
<tr>
<td>Pitting Edema Simulator</td>
<td>M95</td>
</tr>
<tr>
<td>Medical Foot Care Simulator</td>
<td>MW1</td>
</tr>
<tr>
<td>Pressure Sores Care Simulator</td>
<td>MW22</td>
</tr>
<tr>
<td>Lung Sound Auscultation Trainer &quot;LSAT&quot; ver.2</td>
<td>MW28</td>
</tr>
<tr>
<td>Patient Simulator &quot;K&quot; Plus Training System ver.2</td>
<td>MW2810</td>
</tr>
<tr>
<td>Blood Pressure Measurement Trainer ver.2</td>
<td>MW7B</td>
</tr>
<tr>
<td>Physical Assessment Simulator &quot;Physko&quot;</td>
<td>MW12</td>
</tr>
<tr>
<td>Cardiology Patient Simulator &quot;K&quot; ver.2</td>
<td>MW10</td>
</tr>
<tr>
<td>EAR Examination Simulator II</td>
<td>MW1</td>
</tr>
<tr>
<td>EYE Examination Simulator (3 steps)</td>
<td>M82</td>
</tr>
<tr>
<td>Prostate and Rectal Simulator</td>
<td>MW20</td>
</tr>
<tr>
<td>Colonoscopy Training Phantom NKS</td>
<td>US-11</td>
</tr>
<tr>
<td>Endoscopy Training System (ETS)</td>
<td>MW39</td>
</tr>
<tr>
<td>Colonoscopy Training Simulator</td>
<td>M40</td>
</tr>
<tr>
<td>Ultrasound Examination Training Phantom &quot;ABDFAN&quot;</td>
<td>US-1B</td>
</tr>
</tbody>
</table>

**2. Obstetrics / Neonatal / Pediatric / Gynecology Ultrasonic Phantom**

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female Pelvic Ultrasound Phantom</td>
<td>US-10</td>
</tr>
<tr>
<td>Breast Ultrasound Examination Phantom &quot;BREAST FAN&quot;</td>
<td>US-6</td>
</tr>
<tr>
<td>Obstetric Examination Simulator</td>
<td>MW34</td>
</tr>
<tr>
<td>Ultrasound Neonatal Head Heads</td>
<td>US-14a/b</td>
</tr>
<tr>
<td>Visual-Tactile Breast Examination Simulator</td>
<td>M44</td>
</tr>
<tr>
<td>Breast Self Examination Model - body-worn type -</td>
<td>M71</td>
</tr>
<tr>
<td>Vaginal Delivery Assistance Simulator</td>
<td>MW36</td>
</tr>
<tr>
<td>Perineorrhaphy Simulator</td>
<td>MW37</td>
</tr>
<tr>
<td>Newborn Bathing and Nursery Care Model</td>
<td>MW59/M63</td>
</tr>
<tr>
<td>Obstetric Examination Simulator</td>
<td>MW29</td>
</tr>
<tr>
<td>Obstetric Training Simulator -complete set-</td>
<td>MW40</td>
</tr>
<tr>
<td>Cervical Assessment Simulator</td>
<td>MW35</td>
</tr>
<tr>
<td>Pediatric Lumbar Puncture Simulator II</td>
<td>M56B</td>
</tr>
<tr>
<td>Pediatric Patient Care Simulator</td>
<td>MW32</td>
</tr>
<tr>
<td>NCPR Simulator</td>
<td>MW21</td>
</tr>
<tr>
<td>NCPR Simulator Plus</td>
<td>M95</td>
</tr>
<tr>
<td>Simulator Pediatric IV Hand</td>
<td>MW26</td>
</tr>
<tr>
<td>ELBW Infant Simulator</td>
<td>MW33</td>
</tr>
<tr>
<td>Pediatric Lumbar Puncture Simulator II</td>
<td>M43D</td>
</tr>
<tr>
<td>Male Catheterization / Enema Simulator</td>
<td>MW22</td>
</tr>
<tr>
<td>Female Catheterization / Enema Simulator</td>
<td>MW2810</td>
</tr>
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<td>3D Colonoscopy Training Simulator NKS</td>
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</tr>
<tr>
<td>Ultrasound Examination Training Phantom &quot;ABDFAN&quot;</td>
<td>US-1B</td>
</tr>
</tbody>
</table>
A Range of Innovative Training Simulators

- MW34 Obstetric Examination Simulator
- MW35 Cervical Assessment Simulator
- MW40 Obstetric Training Simulator -complete set-
- US-7α Fetus Ultrasound Examination Phantom "SPACE FAN-ST"
- US-10B Obstetrics Pelvic Ultrasound Phantom

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

*Resilient perineal area allows for repetitive use, saving cost for training courses.
from Pregnancy Period to Neonatal Period

2 Smooth delivery of the baby and placenta

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

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

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

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

Practice both transvaginal and transabdominal ultrasound procedures in one
New unit released includes normal, pathological and ectopic pregnancies.

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

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

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

SPECIFICATIONS
- Torso size: W34 x D33 x H24cm
- Weight: 7.2kg / 15.9 lbs

SET INCLUDES
US-10
Female Pelvic Ultrasound Phantom
1. lower torso manikin
1. ultrasound pathology unit
1. ultrasound first trimester pregnancy unit
1. storage case
1. instruction manual

US-10A
Female Pelvic Ultrasound Phantom
1. lower torso manikin
1. ultrasound pathology unit
1. ultrasound first trimester pregnancy unit
1. ultrasound ectopic pregnancy unit
1. storage case
1. instruction manual

US-10B
Obstetrics Pelvic Ultrasound Phantom
1. lower torso manikin
1. ultrasound first trimester pregnancy unit
1. ultrasound ectopic pregnancy unit
1. storage case
1. instruction manual

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
- Skin for US-10 / 10A / 10B

RECOMMENDED DEVICES
- * Ultrasound scanner is not included.
Fetus Ultrasound Examination Phantom "SPACE FAN-ST"

Staple phantom for hands-on practice in second trimester screening
Includes a 23-week fetus with detailed anatomy associated with assessment of gestational age in second trimester

**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
- amniotic fluid
- placenta
- umbilical cord

**FEATURES**
1. The oval shape phantom abdomen can be set in 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.)

**SPECIFICATIONS**

- Size: W40 x D29 x H22 cm
  W16 x D11.6 x H8.8 inch
- Weight: 6kg / 13 lbs

**MATERIALS**
- Soft resin, Polyurethane elastomer
- Latex free

**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

**RECOMMENDED DEVICES**

- * Ultrasound scanner is not included.

**SET INCLUDES**

- mother body torso
- ultrasound pregnant uterus phantom
- fetus demonstration model
- storage case
- tutorial manual (DVD)
World's first ultrasound neonatal head phantom with hydrocephalus

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

SPECIFICATIONS
Size: W13 x D14 x H20 cm
W5.1 x D5.1 x H6.7 inch
Weight: 1.5kg / 3.3lbs

DESCRIPTIONS
MATERIALS
Polyurethane elastomer
Latex free

REPLACEMENT PARTS
- 

RECOMMENDED DEVICES
- 

* Ultrasound scanner is not included.
Pediatric FAST/Acute Abdomen Phantom

**FEATURES**

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

**SKILLS**

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

**IMAGES**

- Pleural hemorrhage
- Hydronephrosis
- Appendicitis

**SPECIFICATIONS**

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

**SET INCLUDES**

- Ultrasound phantom
- Storage case
- Tutorial manual (DVD)

**MATERIALS**

- Polyurethane elastomer
- Latex free

**RECOMMENDED DEVICES**

- 

*Ultrasound scanner is not included.*
Infant Hip Sonography Training Phantom

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

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

cartilage acetabular roof

bony rim

labrum

femoral head

ilium

lower limb

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

SPECIFICATIONS

- Size: W21.6 x D9.8 x H5.1 inch
- Weight: 3kg / 6.6lbs

SET INCLUDES

- ultrasound infant phantom
- storage case
- instruction manual

MATERIALS

- Polyurethane elastomer
- Latex free

RECOMMENDED DEVICES

- *Supporting cushion is not included.
- *Ultrasound scanner is not included.
Breast Ultrasound Examination Phantom "BREAST FAN"

Unique phantom for basic breast ultrasound examination
Simulated targets with different echogenicities are embedded in the phantom’s mammary gland

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

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

IMAGES
Cyst
Mammary ductal ectasia
Malignant tumor
Benign tumor

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

SET INCLUDES
1. breast phantom
1. storage case
1. tutorial manual (DVD)
1. instruction manual

DESCRIPTIONS
MATERIALS
Polyurethane elastomer
Latex free

RECOMMENDED DEVICES
-

REPLACEMENT PARTS
-
Ultrasound-Guided Breast Biopsy Phantom

Enhance confidence in performing safe and accurate breast biopsies
Combine two types of breast phantoms for step-by-step development of skills in needle biopsy

**FEATURES**

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

**SKILLS**

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

**KEY FEATURES**

* Basic (Transparent)  
Hand-eye coordination

* Advanced (Opaque)  
Acquisition of skills in safe and reliable needle biopsy

**SPECIFICATIONS**

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

**SET VARIATIONS**

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

**MATERIALS**

- Hydrogel
- Latex free

**RECOMMENDED DEVICES**

- Ultrasound scanner is not included.
Visual-Tactile Breast Examination Simulator

A compact and realistic breast examination trainer
An excellent training and demonstration tool in breast lumps palpation both in educational and clinical setting
Utility model (Japan): No.1790498
Product Supervision
Tsuneaki Senoh, Prof., Kurashiki Medical Center

**FEATURES**

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

**SKILLS**

| Tactile breast examination |
| Breast self-examination |

**PATHOLOGIES**

(A) Skin Dimpling (Tumor):
(B) Pitting (Tumor):
(C) Fibroadenoma:
(D) Mastopathy:

**DESCRIPTIONS**

**MATERIALS**

- Latex free
- Soft resin

**SPECIFICATIONS**

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

**SET INCLUDES**

1. breast model (attached to the case)
2. talcum powder
3. storage case
4. instruction manual

**REPLACEMENT PARTS**

M71

Breast Self Examination Model - body-worn type -

Breast examination trainer for self examination
Practice to detect and differentiate 6 different lumps through visual-tactile examination.
Utility model (Japan): No.1790498
Product Supervision
Tsuneaki Senoh, Prof., Kurashiki Medical Center

**FEATURES**

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

**SKILLS**

| Tactile breast examination |
| Breast self-examination |

**DESCRIPTIONS**

**MATERIALS**

- Soft resin
- Latex free

**SPECIFICATIONS**

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

**SET INCLUDES**

1. breast model with the strap belts
2. storage case

**RECOMMENDED DEVICES**
Full Perinatal Patient Care Simulator “Hana”

**FEATURES**

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

**SKILLS**

- 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
- 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)
- Nasogastric tube feeding
- Oral and denture care
- Oxygen mask
- Stomach pumping
- Suction
- Airway management, Intubation assistance
- Urinary catheterization
- Genital care
- Check procedures in case of amniorrhexis, bleeding and lochia

**POINTS**

- One-touch interchangeable parts
- Compatible with birthing chairs
- Durable yet realistically elastic
- Accurate anatomy

**Optional Add-ons**

- IM injections (upper arm)
- SC injections (upper arm)
Perinatal examination

**Perinatal examination**

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

**Ultrasound examination**

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

**Cervical examination**

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

**During labor**

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

**Perineal tear**

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

**Puerperal**

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

**DESCRIPTIONS**

**SPECIFICATIONS**

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

**SET INCLUDES**

1. manikin
2. wig
3. face mask for Konoha/Hana
4. denture
5. female genitalia for Konoha
6. maternity clothes
7. towel
8. instruction manual
9. replacement parts
10. lubricant for training models
11. replacement shoulder IM pads
12. velamen sheets
13. 10 umbilical codes for omphalotomy
14. genitalia inserts
15. lubricant for MW35/36/40

**MATERIALS**

- Soft resin
- Latex free

**RECOMMENDED DEVICES**

- 11229-050 lubricant for training models
- 112251-030 replacement shoulder IM pads
- 11416-040 velamen sheets
- 11416-030 10 umbilical codes for omphalotomy
- 11417-010 genitalia inserts
- 11414-020 lubricant for MW35/36/40
- 11406-040 wig
- 11415-030 genitalia unit
- 11415-010 cervical dilation inserts
- 11416-020 placenta
- 11406-050 printer
Obstetric Examination Simulator

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

Key Features

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

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

Specifications

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>pregnancy torso</td>
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<tr>
<td>AC adaptor</td>
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<td>remote control</td>
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<td>talcum powder</td>
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<tr>
<td>instruction manual</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Materials

- Soft resin
- Latex free

Replacement Parts

11414-010 skin cover for MW34

Landmarks

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

KYOTO KAGAKU KYOTOKAGAKU AMERICA INC. 16 Kyoto Kagaku Product Lineup Web
**KEY FEATURES**

**Palpation**

**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.

**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**

- **Maternal abdominal girth**
- **Fundal height**
- **Distantia spinarum**
- **Distania cristarum**
- **Distania trochanterica**
- **External oblique diameter**

**Innovative tissue-like material!**

Palpate an anatomically correct pelvic and fetal landmarks.

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

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

**Fetal Development Model Set**
- This set of embryo models demonstrates regular fetal development in sequence from the 9th to 40th weeks of pregnancy.
Obstetric Training Simulator -complete set-

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

**FEATURES**

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

**LANDMARKS**

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

**SKILLS**

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

---

**SPECIFICATIONS**

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

**SET INCLUDES**

- Maternal body
- Genitalia unit (for pelvic examination and delivery assistance)
- Talcum powder
- Lubricant (150ml)
- Instruction manual

**MATERIALS**

- Soft resin
- Latex free

**Parts for pelvic examination:**

- Vaginal unit
- Set of cervical dilation inserts (5 variations)
- Holder for the cervical dilation inserts

**Parts for Delivery Assistance:**

- Fetus
- Placenta
- Umbilical cords for omphalotomy
- Tray
- Velamen sheets

**Parts for Perineorrhaphy:**

- Genitalia unit (for perineorrhaphy)
Cervical Assessment Simulator

Realistic yet durable material for repetitive practice of cervix scoring

**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

**SPECIFICATIONS**

- Size: W74xD44 x H33.5 cm W29xD17xH13 inch
- Weight: 10.3 kg / 22.7 lbs

**MATERIALS**

- Soft resin, hard plastic
- Latex free

**REPLACEMENT PARTS**

- 11415-010 1 set of cervical dilation inserts (5 variations)
- 11415-020 3 lubricant (150 ml)
- 11415-030 1 genitalia unit

**SET INCLUDES**

- 1 maternal body
- 1 genitalia unit
- 1 vagina unit
- 1 set of cervical dilation inserts (5 variations)
- 1 holder for the cervical dilation inserts

- 3 lubricant (150 ml)
- 1 talcum powder
- 1 instruction manual

Station zero, the line that connects ischial spines can be recognized.
MW36

Vaginal Delivery Assistance Simulator

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

**FEATURES**

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

**SKILLS**

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

**SPECIFICATIONS**

- Size: W74 x D44 x H33.5 cm W29x17xH13 inch
- Weight: 11.2kg / 24.7 lbs

**SET INCLUDES**

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

**MATERIALS**

- Soft resin, hard plastic
- Latex free

**REPLACEMENT PARTS**

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

**OPTIONAL PARTS**

- 11417-020 genitalia unit (frame, skin)

**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**

- 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

**KYOTO KAGAKU KYOTOKAGAKU AMERICA INC.**
MW37

Perineorrhaphy Simulator

Practice first-degree perineal tear repairs repetitively

**FEATURES**

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

**SKILLS**

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

**KEY FEATURES**

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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>W16 x D23 x H20.5 cm</td>
</tr>
<tr>
<td></td>
<td>W6.3 x D9 x H8 inch</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5 kg / 3.3 lbs</td>
</tr>
</tbody>
</table>

**SET INCLUDES**

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

**MATERIALS**

- Soft resin
- Latex free

**REPLACEMENT PARTS**

- 11417-010 2 genitalia inserts (perineorrhaphy)

**OPTIONAL PARTS**

- 11417-020 genitalia unit (frame, skin)

* Suturing instruments are not included.
Uterine Involution Assessment Simulator

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

**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

**SPECIFICATIONS**

- Size: W28 x D42 x H26 cm  
  W11 x D16.5 x 10.2 cm
- Weight: 7.4kg / 16.3 lbs

**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)

**SET INCLUDES**

1. puerperal lower torso
2. set of uterine inserts (4 variations)
3. talcum powder
4. instruction manual

**KEY FEATURES**

4 variations of uterine inserts

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

**LANDMARKS**

- pubic symphysis
- umbilicus
- uterus

**DESCRIPTIONS**

- Normal: (boundary between abdominal wall and uterus is hard and clear)
- Abnormal: (uterine is soft or unclear)
NCPR Simulator

Manikin that facilitates Cardio-Pulmonary Resuscitation training of newborn baby

FEATURES

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

SKILLS

Basic neonatal care

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

Emergency Simulation

| Chest compression
| Endotracheal intubation
| BVM ventilation

*The product is not designed for bathing.

ANATOMY

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

DESCRIPTIONS

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
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<tr>
<td>Size: 50 cm / 19.6 inch Weight: 2kg / 4.4 lbs</td>
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<table>
<thead>
<tr>
<th>SET INCLUDES</th>
</tr>
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<tbody>
<tr>
<td>1 newborn manikin</td>
</tr>
<tr>
<td>1 lubricant</td>
</tr>
<tr>
<td>1 instruction manual</td>
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</table>

<table>
<thead>
<tr>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft resin</td>
</tr>
<tr>
<td>Latex free</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>REPLACEMENT PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11400-010 1 mask for MW21, MW32</td>
</tr>
<tr>
<td>11400-020 1 chest skin for MW21, MW32</td>
</tr>
<tr>
<td>11400-030 4 umbilical cords for MW21, MW32</td>
</tr>
<tr>
<td>11229-050 1 lubricant</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RECOMMENDED DEVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feeding tube: 5fr.</td>
</tr>
<tr>
<td>Suction catheter: 5fr.</td>
</tr>
<tr>
<td>Endotracheal tube: 3.0mm ID</td>
</tr>
<tr>
<td>Umbilical catheter: 5fr., 30cm</td>
</tr>
<tr>
<td>Laryngoscope: #0</td>
</tr>
<tr>
<td>BVM: neonatal</td>
</tr>
</tbody>
</table>

* Instruments are not included.
NCPR Simulator Plus

**FEATURES**
1. Transillumination of the right hand and foot for IVC insertion
2. Accessible veins on the right arm and leg for PICC insertion

**DESCRIPTIONS**
In addition to NCPR Simulator, NCPR Simulator Plus trains:
- IV access with transillumination guidance
- Accessible veins:
  - right arm basilic vein
  - right hand dorsal vein
  - right leg saphenous vein
  - right leg popliteal vein

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

**MATERIALS**
- Soft resin
- Latex free

**SET INCLUDES**
- 1 newborn manikin
- 1 lubricant
- 1 instruction manual

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

**RECOMMENDED DEVICES**
- Feeding tube: 5 fr.
- Suction catheter: 5 fr.
- Endotracheal tube: 3.0mm ID
- Peripheral venous catheter: 2BG x 30 cm
- Laryngoscope: #0

**SKILLS**
- Changing body position, hygiene care in an incubator
- Whole body assessment and measurement
- Insertion of urinary catheter
- Bag valve mask resuscitation
- Chest compression
- Endotracheal intubation
- Nasal CPAP

**ANATOMY**
- bronchi
- esophagus
- stomach
- articulated head and neck

**ELBW Infant Simulator**

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

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

**SPECIFICATIONS**
- Size: 35cm / 13.7 inch
- Head circumference: 28cm / 11 inch
- Weight: 0.9kg / 2 lbs

**MATERIALS**
- Soft resin
- Latex free

**SET INCLUDES**
- 1 ELBW manikin
- 1 lubricant
- 1 instruction manual

**REPLACEMENT PARTS**
- 11138-010 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)

*The product is not designed for bathing.

* Instruments are not included.
M59/M63

Newborn Bathing and Nursery Care Model

**Features**
- Soft, seamless newborn manikin for skills training
- Life-size 0-4 week-old infant, with the realistic weight and balance of newborn babies

**Specifications**
- Size: 50 cm / 19.6 inch
- Head circumference: 33 cm / 13 inch
- Weight: 3 kg / 6.6 lbs

**Set Includes**
- 1 newborn manikin
- 1 umbilical cord
- 1 feeding bottle
- 1 baby cloth

**Materials**
- Soft resin
- Latex free

**Replacement Parts**
- 11258-080 Umbilical cord

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

---

M58

Newborn Vital Signs Examination Simulator

**Features**
- Life-size newborn manikin for basic vital sign assessments

**Specifications**
- Size: 50cm / 19.6 inch
- 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 storage case

**Materials**
- Soft resin
- Latex free

**Replacement Parts**
- -

**Skills**
- Vital signs examination
  - Heart sounds
  - Respiration
  - Pulses: superficial temporal, carotid and radial arteries (bilateral)
  - Body temperature (rectal thermometry)

---

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

*Product Supervision*

---
Pediatric Patient Care Simulator

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

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

**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**

- Airway suction
- PEG care
- Positioning, patient handling
- Male & female catheterization
- Feeding tube management
- Anatomical understanding

**SPECIFICATIONS**

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

**SET INCLUDES**

1. Pediatric manikin
1. Head & neck anatomy plate
1. Male & female genitalia
1. Syringe
1. Irrigation bag

**MATERIALS**

- Soft resin, hard resin
- Latex free

**RECOMMENDED DEVICES**

- -

**REPLACEMENT PARTS**

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

**SPECIFICATIONS**
- Set: W23 x D6 x H5 cm / W9 x D2.3 x 1.9 inch (one-year-old)
- Set: W30 x D8 x H6 cm / W11.8 x D3.1 x 2.3 inch (three-year-old)

**MATERIALS**
- Soft, seamless baby manikin allows practice in safe patient positioning and holding.
- Two types of puncture pads: deep or shallow
- Anatomically correct landmarks for palpation

**RECOMMENDED DEVICES**
- Indwelling needle: 23G
- Butterfly needle: 23G

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

**DESCRIPTIONS**
- **M95**
- **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.

**FEATURES**
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

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

**MATERIALS**
- Soft resin
- Latex free

**RECOMMENDED DEVICES**
- 22G-24G spinal needle

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

* Needles are not included.

**PRODUCTS**
- **M95**
- **M43D**

**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

**MATERIALS**
- 1 spoon
- 1 plastic jar
- 1 plastic beaker
- 1 storage case
- 1 instruction manual

**REPLACEMENT PARTS**
- 11348-010 pediatric LP block (shallow)
- 11348-420 pediatric LP block (deep)
**Oral Care Simulator Advanced**

**Oral care simulator which can mimic various patient conditions**
True-to-life oral cavity and the denture sets
Actual water can be used to clean oral cavity

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

**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

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

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

**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.*
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.
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

* 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

PATIENT VARIETIES
Variable age, sex and personality

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

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

DESCRIPTIOMS

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

SET INCLUDES
1. manikin
2. denture
3. wig (black)
4. face mask (young)
5. injection pad (median vein)
6. shoulder injection pads
7. thigh injection pads
8. hip IM pads
9. female genitalia (catheterization)
10. female genitalia (suppository insertion/digital disimpaction)

MATERIALS
Soft resin
Latex free

<table>
<thead>
<tr>
<th>REPLACEMENT PARTS</th>
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</thead>
<tbody>
<tr>
<td>11404-080 6 valves for urinary catheterization</td>
</tr>
<tr>
<td>11251-350 rectal valve</td>
</tr>
<tr>
<td>11251-330 simulated feces set</td>
</tr>
<tr>
<td>11251-320 simulated suppository set</td>
</tr>
<tr>
<td>11251-040 2 thigh injection pads</td>
</tr>
<tr>
<td>11251-030 2 shoulder injection pads</td>
</tr>
<tr>
<td>11251-050 2 hip IM pads</td>
</tr>
<tr>
<td>11404-050 4 injection pad (median vein)</td>
</tr>
<tr>
<td>11404-070 male genitalia</td>
</tr>
<tr>
<td>11404-010 face mask (elderly)</td>
</tr>
<tr>
<td>11404-030 wig (elderly)</td>
</tr>
</tbody>
</table>

11404-020 face mask (young) |
11404-040 wig (young) |
11404-060 female genitalia |
11251-310 female genitalia (catheterization, enema) |
11229-050 lubricant (for airway suction etc.) |
11381-800 lubricant (for catheterization)

* Medical instruments are not included.
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
**KEY FEATURES**

### Basic Patient Care

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

- **Pressure sores care**
  - Learn stages of pressure sores
  - Pressure sore care

- **Perineal care**
  - Anatomically correct genitals for detailed care

- **Body positioning and transfer**
  - Communication
  - Correct manual handling techniques
  - Patient safety

### Medical Understanding

- **Airway Suction**
  - Understanding the procedure

- **Daily care with medical understandings**
  - Stoma care
  - Bed bathing for the patients with central venous port
  - Perineal care for the patients with urinal catheters

---

**DESCRIPTIONS**

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

- **MATERIALS**
  - Latex free
  - Soft resin

- **SET INCLUDES**
  1. manikin
  2. denture
  3. wig
  4. oral cover for suctioning
  5. female genitalia
  6. male genitalia
  7. under pants
  8. wrench
  9. instruction manual

- **REPLACEMENT PARTS**
  1. 11405-010 female genitalia
  2. 11405-020 male genitalia
  3. 11401-080 denture
  4. 11229-060 oral cover for suctioning
  5. 11229-050 lubricant for training models
  6. 11381-800 lubricant for catheterization

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

- **RECOMMENDED DEVICES**
  Nasogastric tube feeding:
  - Nasal catheter 12fr / 14fr
  - Gastrostomy catheter for replacements 20fr

* A wheelchair is not included.

---

*Photo: Kyoto College of Nursing*
**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

**SKILLS**
- Urinal catheterization
- Enema
- Suppository insertion
- Perineal care
- Subcutaneous injection
- Body positioning
- Intramuscular injection (limbs)
- IV Insertion and care (forearm)
- Pressure sore care (scapula, sacrum, greater trochanter and heel)
- Patient handling
- Passive exercise
- Change of clothes

**DESCRIPTIONS**

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<thead>
<tr>
<th>SPECIFICATIONS</th>
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<td>Size: 157 cm/62 inch</td>
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| MATERIALS |
| Soft resin |
| Latex free |

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<thead>
<tr>
<th>REPLACEMENT PARTS</th>
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<tbody>
<tr>
<td>11401-010 Insulin injection pad for MW22 (a set of 6)</td>
</tr>
<tr>
<td>11401-020 Gluteal IM pads for MW22 (a set of 4)</td>
</tr>
<tr>
<td>11401-030 Female genitalia unit for MW22</td>
</tr>
<tr>
<td>11401-040 Male genitalia unit for MW22</td>
</tr>
<tr>
<td>11401-050 Shoulder IM pads for MW 22 (a pair)</td>
</tr>
<tr>
<td>11401-060 Thigh IM pads for MW22</td>
</tr>
<tr>
<td>11401-070 Wound care pad for MW22 (a pair)</td>
</tr>
<tr>
<td>11401-080 Dentures (a set of upper &amp; lower) for MW22, MW26</td>
</tr>
<tr>
<td>11401-090 Stomach for MW22</td>
</tr>
<tr>
<td>11388-200 pad</td>
</tr>
</tbody>
</table>

**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

**REPLACEMENT PARTS**

**Soft resin**
- Male genitalia
- Fire
- Injection pads
- Subcutaneous / gluteal / femoral IM / Upper arm IM

**Latex free**
- Female genitalia
- Male genitalia
- Wound care pad
- Bottle
- Syringe
**Male Catheterization/Enema Simulator**

**Female Catheterization/Enema Simulator**

---

**FEATURES**

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

**SKILLS**

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

---

**Features**

- 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.

**Specifications**

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

**Materials**

- Soft resin
- Latex free

**Replacement Parts**

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

**Recommended Devices**

* Catheters are not included.
Tube Feeding Simulator (NG, OG and PEG)

Gastric tube management simulator to learn theories and skills
Can be used as an effective educational tool for caregivers and health care professionals
The manikin has three routes and is compatible with real liquid

The manikin can be set in Fowler’s position.

**FEATURES**

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

**SKILLS**

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

**Feeding Tube Insertion**
Nasogastric and oral tube insertion

**Administration through three Routes**
Actual liquid can be administrated through mouth, nose and PEG tube.
Medication administration techniques can also be simulated (using water).

**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.

**SPECIFICATIONS**
Size: 60x35x23cm / 25.6x13.7x9in.

**SET INCLUDES**
1. male torso
2. support base
3. drain tube
4. tunnel
5. plastic cup
6. tube feeding routes panel
7. chest sheet
8. instruction manual
9. lubricant

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

**RECOMMENDED DEVICES**
Nasal catheter: 14fr
Airway Suction Trainer

Airway suction and tracheostomy management simulator
Life-like anatomical and tactile features to further understanding temporary airway suctioning.

**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

**LANDMARKS**
- oral cavity
- tongue
- oral and nasal pharynx
- epiglottis
- trachea
- esophagus

**SPECIFICATIONS**
Size: 45x23x15 cm / 17.7x9x5.9 inch

**SET INCLUDES**
1. head & neck model with airway anatomy
2. bottle of lubricant
3. catheters
4. bottle of simulated sputum
5. metal tray
6. syringe
7. storage case
8. lubricant
9. instruction manual

**MATERIALS**
Soft resin
Latex free

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

**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**

**SKILLS**
- Oral suctioning
- Nasal suctioning
- Endotracheal suctioning

**OPTIONAL PARTS**

Nasal suction
Oral suction
Five variations of pitting edema simulator including a normal one

Grades of the edemas are based on “Mosby’s Guide to Physical Examination (7th ed.)”

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>SKILLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Grades of the edemas are based on “Mosby’s Guide to Physical Examination (7th ed.)”</td>
<td>Differentiation of the pitting edema: four different levels of edemas and a normal case</td>
</tr>
<tr>
<td>2. The models can be attached to the lower leg of a simulated patients or a training manikins.</td>
<td>Assessment of edemas on the lower legs</td>
</tr>
<tr>
<td>3. 4 levels of pitting edema according to pressures and the depth of indentations.</td>
<td></td>
</tr>
<tr>
<td>4. Repeatable and accurate, as if palpating actual skin surface to the fibula.</td>
<td></td>
</tr>
</tbody>
</table>

KEY FEATURES

- Normal
- 1+ Light Pitting
- 2+ Moderate Pitting
- 3+ Deep Pitting
- 4+ Very Deep Pitting

SPECIFICATIONS
- Size: 10x23cm / 3.9x9 inch

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

MATERIALS
- Soft resin
- Latex free
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.

**FEATURES**
1. Realistic sensation and anatomically accurate
2. Replaceable nails, corn and callosities

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

**DESCRIPTIONS**
- *Instruments are not included.*

**SPECIFICATIONS**
Size: W21xH21xH28cm/ 8.3x8.3x11 inch

**SET INCLUDES**
1. Foot model with swivel stand
2. Toe nails A (thickened ingrown nail)
3. Toe nails B (thickened nail with ringworm)
4. Callosities
5. Corns
6. Instruction manual

**REPLACEMENT PARTS**
- 1 replacement parts set for M66
  - Toe nail A 20 pcs
  - Toe nail B 20 pcs
  - Callosity 10 pcs
  - Corn 10 pcs
- 11273-030 Replacement toe nail A 20 pcs
- 11273-040 Replacement toe nail B 20 pcs
- 11273-050 Replacement callosity 10 pcs
- 11273-060 Replacement corn 10 pcs

**M69**
Pressure Sores Care Simulator

Identify four different stages of pressure ulcers

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

**SKILLS**
- Pressure sores staging
- Pressured area care

**DESCRIPTIONS**

**SPECIFICATIONS**
Size: 38x38cm / 15x15 inch

**SET INCLUDES**
4. Types of the models for demo
4. Types of the sore skins model
1. Set of water color paints
1. Set of brushes
1. Set of palettes

**MATERIALS**
- Soft resin
- Latex free
MW30
Head and Neck Palpation Trainer

New, innovative and ultra-realistic touch, designed to standardize the palpation experience
With the realistically tactile material, the head and neck palpation trainer provides standard for the sensations to be equally perceived

<table>
<thead>
<tr>
<th>KEY FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swallowing</td>
</tr>
<tr>
<td>Sites</td>
</tr>
<tr>
<td>Close-to-real-life sensation</td>
</tr>
<tr>
<td>Swallowing motion to identify and assess the thyroid gland</td>
</tr>
<tr>
<td>Various deviations</td>
</tr>
<tr>
<td>Supple, resilient and delicate texture.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides opportunities of hands-on training.</td>
</tr>
<tr>
<td>Abnormal findings to complement training with healthy simulated patients</td>
</tr>
<tr>
<td>Ensure that trainees share the same tactile sensation to specify the findings</td>
</tr>
<tr>
<td>Maintain objective approaches for skills examination</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sites</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
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<tr>
<td>6</td>
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<td>7</td>
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<td>8</td>
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<td>9</td>
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<td>10</td>
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<td>11</td>
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<tr>
<td>12</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>14</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFICATIONS</td>
</tr>
<tr>
<td>Size: 29x29x47cm / 11.4x11.4x18.5 inch Weight: 6.5kg / 14.3lbs</td>
</tr>
<tr>
<td>SET INCLUDES</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>MATERIALS</td>
</tr>
<tr>
<td>Soft resin</td>
</tr>
<tr>
<td>Latex free</td>
</tr>
</tbody>
</table>
Abdominal Simulator for Examination

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

**Features**

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

**Skills**

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

**Specifications**

- Size: 40x80x20cm / 15.7x31.5x7.9 inch
- Weight: 14kg / 30.9lbs

**Materials**

- Soft resin
- Latex free

**Key Features**

**Bony landmarks**
- Pelvis
- Ribs
- Lower rib cage
- Costal margin
- Xiphisternum
- Pubic crest
- Anterior superior iliac spines

**Liver**
- Normal
- Chronic hepatitis
- Early late cirrhosis
- Cirrhosis

**Inguinal area**
- Normal
- Lymphoma

**Spleen**
- Normal
- Enlarged
- Slightly enlarged

**Kidney**
- Normal
- Hydronephrosis
- Polycystic kidney

**Uterus**
- Normal
- Myoma

**Bruit and sounds**
- Renal artery
- Abdominal aorta
- Iliac artery
- Bowel sounds

**Descriptions**

**Set Includes**

1. Male torso unit
2. Talcum powder
3. Set of the respiratory motion control unit
4. Kidneys (hydronephrosis, cysts)
5. Spleens (slightly enlarged, enlarged)
6. Livers (precirrhosis, cirrhosis, chronic hepatitis, normal)
7. Ingual lymph nodes (normal, lymphoma)
8. Uterus (normal, fibroid)
9. Simulated stethoscope
10. Controller
11. AC adapter
12. Storage cases
13. Instruction manual

**Product Supervision**

Takahiro Amano, M.D., Senior Advisor for Academic Affairs and Professor
International University of Health and Welfare, Honorary Director San-no Medical Center, Japan
Kyoko Arai
RN, PHN, PhD, Professor,
School of Nursing, University of Shizuoka, Japan
Physiko is more than just one simulated patient
Physiko is designed to simulate physical assessment situations for health care trainees. Twelve preset cases simulate typical complaints to provide practical experience in abnormal findings.

### CASES

<table>
<thead>
<tr>
<th>Assessment item</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pupillary reflex</strong></td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Pupillary dilation</td>
</tr>
<tr>
<td><strong>Blood pressure</strong></td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Weak in the left lung</td>
</tr>
<tr>
<td></td>
<td>Absent in the right lung</td>
</tr>
<tr>
<td><strong>Auscultation of lung sounds</strong></td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Weak in the left lung</td>
</tr>
<tr>
<td></td>
<td>Absent in the right lung</td>
</tr>
<tr>
<td><strong>Auscultation of heart sounds</strong></td>
<td>S2 split (-)</td>
</tr>
<tr>
<td></td>
<td>S2 split (+)</td>
</tr>
<tr>
<td></td>
<td>S3 gallop</td>
</tr>
<tr>
<td></td>
<td>S4 gallop</td>
</tr>
<tr>
<td></td>
<td>S3 and S4 gallop</td>
</tr>
<tr>
<td></td>
<td>Innocent murmur</td>
</tr>
<tr>
<td><strong>Auscultation of bowel sounds</strong></td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Increase</td>
</tr>
<tr>
<td><strong>ECG simulation</strong></td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Atrial fibrillation</td>
</tr>
<tr>
<td></td>
<td>Atrial flutter</td>
</tr>
<tr>
<td></td>
<td>Premature ventricular contraction</td>
</tr>
<tr>
<td></td>
<td>Ventricular tachycardia</td>
</tr>
</tbody>
</table>

Pupillary reflex

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

### Cases

Comprehensive examination of 12 typical patients

<table>
<thead>
<tr>
<th>Case</th>
<th>Age, Sex</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thoracic Pain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58, Male</td>
<td></td>
<td>Myocardial Infarction</td>
</tr>
<tr>
<td>55, Male</td>
<td></td>
<td>Dissecting Aortic Aneurysm</td>
</tr>
<tr>
<td>76, Female</td>
<td></td>
<td>Lung Infarction</td>
</tr>
<tr>
<td>28, Male</td>
<td></td>
<td>Intercostal Muscle Ache</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26, Female</td>
<td></td>
<td>Ileus</td>
</tr>
<tr>
<td>19, Male</td>
<td></td>
<td>Diarrhea</td>
</tr>
</tbody>
</table>

### Physical Assessment Mode 1

**Patient Cases**

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

### Physical Assessment Mode 2

**Patient Cases Editor**

**Skills Training**

Physiko allows individual assessment skills training

### Specifications

- **Size:** 155cm/61 inch
- **Weight:** 24kg/53lbs
- **Power:** AC100V-240V 50/60Hz
- **Power Consumption:** 70W

### Set Includes

1. Manikin
2. Terminal box
3. ECG electrodes unit
4. Laptop PC
5. Sphygmomanometer unit
6. Set of clothes

### Materials

- Soft resin, hard resin
- Latex free
Hone your senses and skills for bedside cardiology
See, listen, and feel.
The cardiology patient simulator K ver.2 provides comprehensive hands-on training in cardiology and its complications.

(CASES)

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Normal heart simulation (12 cases)</th>
<th>Heart disease simulation (14 cases)</th>
<th>Arrhythmia (10 cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-01</td>
<td>S2 split (-) HR: 60</td>
<td>aortic stenosis</td>
<td>C-01</td>
</tr>
<tr>
<td>A-02</td>
<td>S1 split (+)</td>
<td>mitral regurgitation</td>
<td>C-02</td>
</tr>
<tr>
<td>A-03</td>
<td>S2 split (+)</td>
<td>mitral stenosis</td>
<td>C-03</td>
</tr>
<tr>
<td>A-04</td>
<td>S2 wide split</td>
<td>aortic regurgitation</td>
<td>C-04</td>
</tr>
<tr>
<td>A-05</td>
<td>S3 gallop</td>
<td>hypertrophic cardiomyopathy</td>
<td>C-05</td>
</tr>
<tr>
<td>A-06</td>
<td>S4 gallop</td>
<td>mitral steno-regurgitation</td>
<td>C-06</td>
</tr>
<tr>
<td>A-07</td>
<td>pulmonic ejection sound</td>
<td>pulmonary valvular stenosis</td>
<td>C-07</td>
</tr>
<tr>
<td>A-08</td>
<td>S3 and S4 gallop</td>
<td>atrial septal defect</td>
<td>C-08</td>
</tr>
<tr>
<td>A-09</td>
<td>innocent murmur</td>
<td>ventricular septal defect</td>
<td>C-09</td>
</tr>
<tr>
<td>A-10</td>
<td>midsystolic click sound</td>
<td>tricuspid regurgitation</td>
<td>C-10</td>
</tr>
<tr>
<td>A-11</td>
<td>S2 split (-) HR: 72</td>
<td>acute mitral regurgitation</td>
<td></td>
</tr>
<tr>
<td>A-12</td>
<td>S2 split (+) HR: 84</td>
<td>patent ductus arteriosus</td>
<td></td>
</tr>
</tbody>
</table>

(MODE 2) Arrhythmia simulation, auscultation training with ECG

<table>
<thead>
<tr>
<th>A</th>
<th>Normal heart R</th>
<th>Arrhythmia (10 cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-01</td>
<td>normal sinus R</td>
<td></td>
</tr>
<tr>
<td>A-02</td>
<td>sinus tachycardia</td>
<td></td>
</tr>
<tr>
<td>A-03</td>
<td>sinus arrhythmia</td>
<td></td>
</tr>
<tr>
<td>A-04</td>
<td>apc solitary</td>
<td></td>
</tr>
<tr>
<td>A-05</td>
<td>apc bigeminy</td>
<td></td>
</tr>
<tr>
<td>A-06</td>
<td>actopiacemaker</td>
<td></td>
</tr>
<tr>
<td>A-07</td>
<td>wondering pacemaker</td>
<td></td>
</tr>
<tr>
<td>A-08</td>
<td>coronary sinus R</td>
<td></td>
</tr>
<tr>
<td>A-09</td>
<td>sinus bradycardia</td>
<td></td>
</tr>
<tr>
<td>A-10</td>
<td>ss syndrome</td>
<td></td>
</tr>
<tr>
<td>A-11</td>
<td>atrial fibrillation</td>
<td></td>
</tr>
<tr>
<td>A-12</td>
<td>atrial flutter</td>
<td></td>
</tr>
<tr>
<td>A-13</td>
<td>atrial flutter fib</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C</th>
<th>Normal heart R</th>
<th>Arrhythmia (10 cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-01</td>
<td>VVI pacemaker</td>
<td></td>
</tr>
<tr>
<td>C-02</td>
<td>atrial pacemaker</td>
<td></td>
</tr>
<tr>
<td>C-03</td>
<td>vent pacemaker</td>
<td></td>
</tr>
<tr>
<td>C-04</td>
<td>av seq pacemaker</td>
<td></td>
</tr>
<tr>
<td>C-05</td>
<td>icrbb</td>
<td></td>
</tr>
<tr>
<td>C-06</td>
<td>crbb</td>
<td></td>
</tr>
<tr>
<td>C-07</td>
<td>cibbb</td>
<td></td>
</tr>
<tr>
<td>C-08</td>
<td>cibbb (by ami)</td>
<td></td>
</tr>
<tr>
<td>C-09</td>
<td>cibbb (by ami)</td>
<td></td>
</tr>
<tr>
<td>C-10</td>
<td>wpw syndrome</td>
<td></td>
</tr>
<tr>
<td>C-11</td>
<td>wpw syndrome</td>
<td></td>
</tr>
<tr>
<td>C-12</td>
<td>wpw syndrome</td>
<td></td>
</tr>
<tr>
<td>C-13</td>
<td>vpc (solitary)</td>
<td></td>
</tr>
</tbody>
</table>
### Basic Skill Training

**Heart Sounds and Murmurs**
- Auscultation synchronized with electrocardiograms and findings.
- Differentiation of S1, S2, S3 and S4
- Distinction between systolic and diastolic murmurs

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

**Observation of Jugular Veins**
- The strength and timing of "α" and "V" waves vary with cases.

**Palpation of Apex Beat**
- Simulated RV, LV and DLV can be palpated

**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

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

**Playlist Maker facilitates:**
- Sessions with temporal change in physical findings.
- Standardization of training contents among different instructors.
- Saving time for preparation.

**Ready-to-use**
- Simple connection and all-in-one unit structure.

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

### Key Features

**Physical findings of Simulator "K" ver.2**

- Comprehensive Clinical Examination Training

**For Effective Training Sessions**

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

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

**SET INCLUDES**

- Main unit with the model body
- External speaker (built-in the unit)
- PC (keyboard, mouse) (built-in the unit)
- Air compressor unit (built-in the unit)
- Main monitor

**MATERIALS**

- Soft resin, hard resin
- Latex free

**SPECIFICATIONS**

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

* A stethoscope is not included.
Lung Sound Auscultation Trainer "LSAT" ver.2

Used by 96% of medical faculties in Japan,
LSAT is now renewed and improved!
In just a few taps away, improve lung assessment skills by combining theory and practice with real lung sound recordings and case information.

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

Background heart sounds are available in 5 volume levels.

<table>
<thead>
<tr>
<th>Normal</th>
<th>Miscellaneous continuous sounds</th>
<th>Fine crackles</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01  standard</td>
<td>G01 stridors</td>
<td>D01 both lower area</td>
</tr>
<tr>
<td>A03  mildly strong sounds</td>
<td>G03 squawks</td>
<td>D03 both middle lower area</td>
</tr>
<tr>
<td>A05  mildly rapid</td>
<td></td>
<td>D05 whole area (IPF)</td>
</tr>
<tr>
<td>A07  loud heart sounds</td>
<td></td>
<td>D07 whole area (NSIP)</td>
</tr>
<tr>
<td>Coarse crackles</td>
<td>Abnormal</td>
<td></td>
</tr>
<tr>
<td>C01  right lower area</td>
<td>B01 weak: left lower area</td>
<td>F01 trachea and upper area 150-250Hz</td>
</tr>
<tr>
<td>C03  both lower area</td>
<td>B02 weak: left whole area (adhesion)</td>
<td>F03 trachea and upper area 150-450Hz (polyphonic)</td>
</tr>
<tr>
<td>C05  right upper and middle area</td>
<td>B05 weak: left whole area(pneumothorax)</td>
<td>F05 trachea and upper area 80-120Hz</td>
</tr>
<tr>
<td>C07  left lower area</td>
<td>B07 absent: right middle and lower areas</td>
<td>F07 whole area 80-200Hz</td>
</tr>
<tr>
<td>C09  both upper area</td>
<td>B09 weak: right whole area</td>
<td></td>
</tr>
<tr>
<td>C11  whole area</td>
<td>B11 absent: right whole area</td>
<td></td>
</tr>
<tr>
<td>Wheezes</td>
<td>Abnormal</td>
<td></td>
</tr>
<tr>
<td>E01  upper area 600-700Hz</td>
<td>B13 weak: whole area</td>
<td></td>
</tr>
<tr>
<td>E03  upper area 350-450Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E05  upper area 200-1000Hz</td>
<td>B15 bronchial breathing</td>
<td></td>
</tr>
</tbody>
</table>

* A stethoscope is not included.
**KEY FEATURES**

### Basic Features

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

**NEW Features**

- **Wireless multi-unit operation**
  - Up to five "LSAT" can be controlled by one wireless control PC.
  - Each simulator can be individually programmed
  - Cases can be switched at any time with a simple touch

- **Simultaneous anterior and posterior auscultation**
  - Two or more trainees can work together at the same time

- **LED light panel to indicate inspiration and expiration**
  - Attention to respiration rate while auscultating during examination

- **Create a custom playlist**
  - With 36 different cases.
  - Playlist mode enables optimization of training sessions.

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

**SPECIFICATIONS**

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

**MATERIALS**

- Soft resin
- Latex free

**SET INCLUDES**

- 1 LSAT2 main unit
- 1 control PC
- 1 LSAT T-shirt
- 1 instruction manual
Patient Simulator "K" Plus Training System ver.2

For comprehensive training of chest examination
Two simulators, the Lung Sound Auscultation Trainer and the Cardiology Patient Simulator, make a complete duo for chest examination training. With 36 lung sound cases and 88 cardiology patient cases, the "K" ver.2 Plus offers extensive array of scenarios that make it a great addition to classrooms and training sessions.

SKILLS
Clinical reasoning through the below findings

| Cardiology Patient Simulator "K" ver.2 |
| Auscultation (heart and lung sound), pulse examination (carotid arteries/radial arteries/brachial arteries/femoral arteries), apex beat, inspection of jugular veins and abdominal respiration. |

| Lung Sound Auscultation Trainer "LSAT" ver.2 |
| Auscultation (heart and lung sound), understanding inspiration and expiration. |

Auscultation of heart sounds
Observation of jugular veins
* Penlight is not included.
Auscultation of lung sounds
* Stethoscope is not included.
Patient Simulator "K" Plus Ver.2:

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

Cardiology Patient Simulator:
Find out the details of features on page 42-43.

Lung Sound Auscultation Trainer:
Find out the details of features on page 44-45.

* The Cardiology Patient Simulator and Lung Sound Auscultation Trainer cannot be operated simultaneously.
* The Cardiology Patient Simulator software needs to be shut down to switch to Lung Sound Auscultation Trainer, and vice versa.
MW7B

Blood Pressure Measurement Trainer ver.2

Become familiar with the physiology of hypertension by blood pressure observations
With 9 preset cases, the simulator allows student lead practice in accordance with the blood pressure data obtained

**Features**

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

**Skills**

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

**Nine Preset Cases**

1. Hypotensive
2. Normal
3. Prehypertension
4. Mild hypertension
5. Moderate hypertension
6. Severe hypertension
7. Isolated systolic hypertension
8. Auscultatory gap
9. Absence of Phase V Korotkoff sounds

**Specifications**

- Size: 67x18x22cm/26.4x7.1x8.7 inch
- Weight: 2.5kg/5.5lbs
- Power: AC100V-240V 50/60Hz
- Power Consumption: 10W

**Materials**

- Soft resin, Latex free

**Set Includes**

1. Arm model
2. Controller
3. AC adaptor
4. Power cable

1. Aneroid sphygmomanometer unit
2. Instruction manual
3. Carrying bag (no photo)
**EAR Examination Simulator II**

**Practice patient-focused care during an otoscopy**
EAR II is an otoscopy simulator that focuses on patient safety. With a sensitive alarm system, patient discomfort can be alerted when the otoscope was excessively inserted.

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

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

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

**DESCRIPTIONS**

**A42** Ear anatomy B
Includes a portion of the cochlea dissected transversally, the scala vestibuli, scala tympani, canalis cochlea and hearing organs.

**SPECIFICATIONS**
- Size: 42x21x39cm/16.5x8.3x15.3 inch
- Weight: 1.5kg/3.3lbs

<table>
<thead>
<tr>
<th>SET INCLUDES</th>
<th>DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 manikin head and shoulder</td>
<td>1 types of ear units - 1 pair each</td>
</tr>
<tr>
<td>1 set of foreign body removal kit</td>
<td>- exam ear (normal)</td>
</tr>
<tr>
<td>- simulated ear wax, small toys, small sponge fragments and a spoon instruction manual</td>
<td>- exam ear (stenosis)</td>
</tr>
</tbody>
</table>

**REPLACEMENT PARTS**
- 11391-010 ear units and foreign body set
  - 4 types of ear units - 1 pair each
  - ear exam (normal), ear exam (stenosis), FB ear (normal), FB (stenosis)
  - 1 set of foreign body removal kit
  - simulated ear wax, small toys, small sponge fragments and a spoon
EYE Examination Simulator (3 steps)

M82

EYE Examination Simulator (2 steps)

M82A

Practical fundus examination simulator with 10 clinical images and variations.
An innovative trainer for fundus examination compatible with actual ophthalmoscope. Various cases can be set using combination of slides, depth variations and pupil diameter.

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

Skills:
- Fundus examination with direct ophthalmoscope

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

* M82A includes two normal fundus slides.

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

Set Includes:
- Manikin head and shoulder
- 3 steps (2, 3.5, 5 mm dia.) (M82)
- 2 steps (3.5, 8mm dia.) (M82A)
- Slide holder with 3 steps depth setting
- Blower
- Slide duster
- Storage case
- Instruction manual

Materials:
- *Latex is included in the blower

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

* Ophthalmoscope is not included.
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.

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

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

KEY FEATURES

<table>
<thead>
<tr>
<th>Cases: Nine types of Prostates</th>
<th>Cases: Four Rectum Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 normal</td>
<td>#1 normal</td>
</tr>
<tr>
<td>#2 enlargement 1</td>
<td>#2 small carcinoma</td>
</tr>
<tr>
<td>#3 enlargement 2</td>
<td>#3 large carcinoma</td>
</tr>
<tr>
<td>#4 prostatitis</td>
<td>#4 polyp combines with small carcinoma</td>
</tr>
<tr>
<td>#5 carcinoma 1</td>
<td></td>
</tr>
<tr>
<td>#6 carcinoma 2</td>
<td></td>
</tr>
<tr>
<td>#7 canceroma 3</td>
<td></td>
</tr>
<tr>
<td>#8 carcinoma 4</td>
<td></td>
</tr>
<tr>
<td>#9 carcinoma 5</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPIONS

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>MATERIALS</th>
<th>REPLACEMENT PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: 34x33x24cm / 13.4x13x9.4 inch</td>
<td>Soft resin</td>
<td>11399-010 prostate unit A(normal, enlargement 1&amp;2)</td>
</tr>
<tr>
<td>SET INCLUDES</td>
<td>Latex free</td>
<td>11399-020 prostate unit B(prostatitis, carcinoma 1&amp;2)</td>
</tr>
<tr>
<td>1 lower torso manikin</td>
<td>1 rectum units</td>
<td>11399-030 prostate unit C(carcinoma 3,4&amp;5)</td>
</tr>
<tr>
<td>3 prostate units</td>
<td>1 Vaseline</td>
<td>11399-040 rectum (normal)</td>
</tr>
<tr>
<td>(include 9 types of prostates)</td>
<td>1 body</td>
<td>11399-050 rectum (small carcinoma)</td>
</tr>
<tr>
<td>1 storage case</td>
<td>1 rectum</td>
<td>11399-060 rectum (large carcinoma)</td>
</tr>
<tr>
<td></td>
<td>units</td>
<td>11399-070 rectum (polyp and small carcinoma)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11399-080 skin</td>
</tr>
</tbody>
</table>
Scrotal Ultrasound Phantom

**Master techniques for a safe and painless examination**
Hands-on training to accurately diagnose scrotum abnormalities

**FEATURES**
1. Two types of interchangeable scrotums: normal and pathology
2. Excellent ultrasound image quality

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

**KEY FEATURES**

**Normal phantom**
- scrotum, testicle, epididymis and penis

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

**DESCRIPTIONS**

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: 34x33x24cm / 13.4x13x9.4 inch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 pelvic body</td>
</tr>
<tr>
<td>1 normal scrotum</td>
</tr>
<tr>
<td>1 pathological scrotum</td>
</tr>
<tr>
<td>1 storage case</td>
</tr>
<tr>
<td>1 instruction manual</td>
</tr>
</tbody>
</table>

**REPLACEMENT PARTS**

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

* Ultrasound scanner is not included.

**Product Supervision**
Charlotte Henningsen, MS, RT(R), RDMS, RVT, FSDMS, FAIUM
Chair & Professor - Sonography Department
Adventist University of Health Sciences
# 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 in a variety of skills such as prevention of loop forming, reduction of loops including a loop at LCF as well as insertion technique which forms a loop intentionally.

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

### SPECIFICATIONS

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

### MATERIALS

- Soft resin, hard resin
- Latex free

### SET INCLUDES

- 1 skeleton body
- 1 abdominal membrane
- 1 body base
- 1 colon-rectum tube (with a cap and a plug)

### REPLACEMENT PARTS

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

*Endoscope is not included.*
Endoscopy Training System (ETS)

Specifically designed to meet the new training requirements by the American Board of Surgery Flexible Endoscopy Curriculum
This system consists of a straight colon unit and an anatomical colon unit, which allows learners to gain endoscopic skills through practice.

**Features**

- Fundamental scope navigation skills using dials and torque
- Basic tool skills
- Working in retroflexion
- Preventing, managing and reducing loops
- Thorough mucosal inspection

**Skills**

- Straight colon model
  - Scope Manipulation
  - Tool Targeting
  - Retroflexion
- Anatomical colon model
  - Loop Management
  - Mucosal Inspection

**Specifications**

- 1 anatomic colon model
- 1 abdomen cover
- 1 stand
- 1 anti-slip mat
- 1 straight colon model
- 1 simulated biopsy tool
- 1 scope manipulation screen overlay

**Set Includes**

- 1 extra glue patch
- 1 AC adapter
- 30 concentrated lubricant
- 30 endoscope lubricant
- 1 colon end cap
- 1 plastic bottle
- 1 spatula
- 1 instruction manual

**Materials**

**Replacing Parts**

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

*Endoscope is not included.
Colonoscopy Training Simulator

Training for safe and effective colonoscopy

- Soft and flexible colon tube provides a life-like colonoscopy simulation
- With the focus of patient safety, skills like "loop" prevention can be practiced for safe advancement to the cecum

**Features**

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

**Skills**

- Colonoscopy

**Key Features**

Select difficulty levels of training

Adjustable opening of the anus

Positioning of the body

**Specifications**

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

**Set Includes**

- abdomen model
- colon rectum tube
- anus unit
- air bulb
- abdomen skin cover
- set colon fixture
- colon layout guides (6 cases total)
- lubricants for colon-rectum tube (50 ml each)

- endoscope lubricants (20 ml each)
- plastic bottle
- stand
- rubber sheet
- anus plug
- training guide
- storage case
- 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
- 11361-040 1 set of colon layout guide
- 11361-050 lubricant for colon-rectum tube (blue packs) 30 pcs x 50 ml each
- 11361-050 endoscope lubricant (pink packs) 30 pcs x 20 ml each
- 11361-090 anus plug for M40
- 11361-100 plastic bottle for MW40
- 11361-110 stand for M40

* Endoscope is not included.
**Abdominal ultrasound phantom with pathologies**

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

**FEATURES**

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

**Anatomy**

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

**Pathologies**

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

**SKILLS**

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

**DESCRIPTIONS**

**SPECIFICATIONS**

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

**MATERIALS**

Polyurethane elastomer
Latex free

**SET INCLUDES**

<table>
<thead>
<tr>
<th>US-1B (41900-030) &quot;ABDFAN&quot;</th>
<th>US-1B (41900-100) &quot;ABDFAN&quot; full set</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ultrasound phantom &quot;ABDFAN&quot;</td>
<td>1 ultrasound phantom &quot;ABDFAN&quot;</td>
</tr>
<tr>
<td>1 positioning pillow</td>
<td>1 anatomical model &quot;ECHO-ZOU&quot;</td>
</tr>
<tr>
<td>1 tutorial manual (DVD)</td>
<td>1 positioning pillow</td>
</tr>
<tr>
<td>1 storage case</td>
<td>1 tutorial manual (DVD)</td>
</tr>
<tr>
<td>1 instruction manual</td>
<td>1 storage case</td>
</tr>
</tbody>
</table>

**Product Supervision**

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

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

**Features**
1. Detailed hepatobiliary, pancreatic and other abdominal anatomy
2. Eight Couinaud’s hepatic segments can be localized.

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

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

**Specifications**
- Size: 25x18x28cm / 9.8x7x11 inch
- 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. Storage case

- US-1 (41900-000) "ECHOZY" full set
  1. Ultrasound phantom "ECHOZY"
  1. Anatomical model "ECHO-ZOU"
  1. Set positioning pillow
  1. Storage case

**Product Supervision**
Dr. Hitoshi Asai, Director
Osaka Kyoku University, Health Administration Center

Dr. Shigeru Nakamura
Nagayoshi General Hospital, Clinical Examination Department
Ultrasound-Guided PICC Training Simulator

**New, innovative, human-like material for perfect visualization**
A non-complicated design with replaceable puncture site and anatomically accurate features including the rib cage, sternum, bifurcation, plus visible tip placement in the superior vena cava.

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**KEY FEATURES**

1. Ultrasound guided puncture
2. Movable shoulder
3. Malpositioning

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**FEATURES**

- Excellent image quality and visualization of the needle tip for ultrasound guided venous access
- Movable shoulder to demonstrate positioning
- Realistic flashback in needle provides confirmation for successful venous access
- Ribs and right clavicle provide anatomical understanding of correct PICC placement
- Anatomically correct bifurcation of the vein
- 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

**SPECIFICATIONS**

- Size: W40 x D15 x H60 cm
- Weight: 4.5kg/10lbs

**RECOMMENDED DEVICES**

- Ultrasound scanner and PICC instruments are not included.

**MATERIALS**

- Soft resin, hard resin
- Latex free

**REPLACEMENT PARTS**

- 11398-010 2 PICC puncture pads

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**SET INCLUDES**

- Male upper torso with the right arm
- PICC puncture pads
- Simulated blood (swab type)
- Jar
- Syringe
- Instruction manual
- Storage case

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**Product Supervision**

Joho Tokumine, M.D., Ph.D.,
Department of Anesthesiology,
Kyorin University School of Medicine
CVC Insertion Simulator Ⅱ

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

**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
- Weight: 2.3kg/5lbs

**SET INCLUDES**

- Male upper torso manikin
- Landmark puncture pad
- Ultrasound puncture pad
- Transparent anatomical block
- Introductory ultrasound training block

**MATERIALS**

- Soft resin
- Latex free

- Red coloring powder
- Blue coloring powder
- Air bulb
- Plastic jars
- Irrigation bottle
- Syringe
- Sample syringe
- Sample needle

**RECOMMENDED DEVICES**

- Ultrasound scanner and needles are not included.

**REPLACEMENT PARTS**

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

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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, Kawate Chiba Hospital
CVC Insertion Simulator III

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

From aseptic field preparation to final catheter placement

FEATURES

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

SKILLS

Take complete steps to a successful CVC insertion

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

KEY FEATURES

- Ultrasound compatible
- Pad material simulates features of human tissue
- Anatomically accurate features including 3 insertion sites and rib cage

SPECIFICATIONS

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

SET INCLUDES

1. male upper torso manikin
2. CVC placement pad
3. skin for cannulation training
4. transparent anatomical block
5. artery tube (transparent): 2 type
6. vein tube (blue): 2 type
7. vein pipe
8. pulsation unit (for landmark technique)
9. irrigation bottle (for UG technique)
10. plastic jar
11. coloring powder (red/blue)
12. sample needle
13. syringe (2.5ml, 50ml each)
14. introductory ultrasound training block
15. REAL VESSELS

MATERIALS

Soft resin, hydrogel, hard resin
Latex free

RECOMMENDED DEVICES

Ultrasound machine and needles are not included.

REPLACEMENT PARTS

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

An essential simulator to increase confidence and competence
Arterial blood sampling and cannulation is a common yet delicate procedure. With the innovative design of the arterial puncture simulator, a true-to-life experience can be simulated to ensure correct techniques and boost proficiency.

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

### SKILLS
- Radial arterial puncture
- Artery blood sampling
- Radial line placement

### SPECIFICATIONS
- Size: W20 x D9 x H16 cm (manikin size)
- W20 x D16 x H13 cm (pump size)
- Power: AC100-240V, 50/60 Hz
- Power Consumption:

### MATERIALS
- Soft resin
- Latex free

### SET INCLUDES
- 1 wrist and hand model
- 1 circulation pump
- 2 sets of puncture skins (inner and outer skin)
- 4 artery tubes
- 1 silicon tape

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

### DESCRIPTIONS
Radial Arterial Line Placement
IABP Measurement
(The arterial pressure values are not simulated)
## Clinical Skills - Injection/Puncture -

### 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

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

### SET INCLUDES

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<tr>
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<th>MW4</th>
<th>MW4A</th>
<th>MW15</th>
<th>MW17</th>
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<td>✓</td>
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<tr>
<td>Mid-scapular line unit</td>
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<td>✓</td>
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<tr>
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<td>✓</td>
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<td>Instruction manual</td>
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### Accessories

<table>
<thead>
<tr>
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<th>MW15</th>
<th>MW17</th>
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<td>Funnel</td>
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<td>Syringes (50ml)</td>
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<td>Joint hose</td>
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<tr>
<td>Tube with three-way stopcock</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Plastic jar</td>
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</tbody>
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**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
Thoracentesis
Simulate thoracentesis on both a torso and SP
Ultrasound-Guided Thoracentesis Simulator features two types of puncture units: mid-scapular line access and mid-axillary line access. Strap-on (wearable) puncture units facilitates hybrid training sessions with simulated patients.

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

Pericardiocentesis
Practice patient safety during pericardiocentesis with ultrasound guidance
This simulator allows trainees to insert the needle under ultrasound guidance, pierce the "pericardial sac" and aspirate pericardial fluid.

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

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

MATERIALS
Soft resin, hard resin
Latex free

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

RECOMMENDED DEVICES
Thoracentesis: 22 G / 23 G needle
Pericardiocentesis: 18 G needle
Lumbar Puncture Simulator II

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

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

<table>
<thead>
<tr>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Anatomically accurate</td>
</tr>
<tr>
<td>2. Realistic skin and tissue resistance during insertion</td>
</tr>
<tr>
<td>3. Measure CSF fluid pressure, collect CSF fluid and practice epidural anesthesia procedures</td>
</tr>
<tr>
<td>4. Simulates administration of epidural nerve block with realistic needle-tip sensation</td>
</tr>
<tr>
<td>5. Simulates loss of resistance technique</td>
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<tr>
<td>6. Model stand for either individual or group practice</td>
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</tbody>
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<table>
<thead>
<tr>
<th>SKILLS</th>
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<tbody>
<tr>
<td>Palpation of landmarks</td>
</tr>
<tr>
<td>Lumbar puncture</td>
</tr>
<tr>
<td>CSF collection</td>
</tr>
<tr>
<td>CSF pressure measurement</td>
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<tr>
<td>Epidural anesthesia</td>
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<tr>
<td>Anatomical understanding</td>
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</table>

<table>
<thead>
<tr>
<th>KEY FEATURES</th>
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<tbody>
<tr>
<td>5 types of puncture blocks for variable kinds</td>
</tr>
<tr>
<td>normal</td>
</tr>
<tr>
<td>obese</td>
</tr>
<tr>
<td>senior</td>
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<tr>
<td>senior obese</td>
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<tr>
<td>epidural</td>
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<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
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<tbody>
<tr>
<td>Size: W33 x D21 x H30 cm</td>
</tr>
<tr>
<td>W13 x D8.3 x H11.8 inch</td>
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<tr>
<td>Weight: kg/ lbs</td>
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<tr>
<td>Power:</td>
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<tr>
<td>Power Consumption: -</td>
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<table>
<thead>
<tr>
<th>MATERIALS</th>
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<tbody>
<tr>
<td>Soft resin</td>
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<td>Latex free</td>
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<table>
<thead>
<tr>
<th>RECOMMENDED DEVICES</th>
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</thead>
<tbody>
<tr>
<td>11348-090 LP block (normal CSF)</td>
</tr>
<tr>
<td>11348-110 LP block (obesity CSF)</td>
</tr>
<tr>
<td>11348-120 LP block (senior CSF)</td>
</tr>
<tr>
<td>11348-130 LP block (senior obesity CSF)</td>
</tr>
<tr>
<td>11348-140 epidural block</td>
</tr>
<tr>
<td>11348-150 lumbar region skin cover</td>
</tr>
</tbody>
</table>

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
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

SET INCLUDES

- Lumbar region model
- Ultrasound lumbar puncture/epidural block
- Ultrasound lumbar region skin cover
- Lumbar region support bases (upright position / lateral position)
- Irrigation bag
- Syringe
- Stand for irrigation bag
- Instruction manual

SPECIFICATIONS

Size: W33 x D21 x H30 cm
W13 x D8.3 x H11.8 inch
Weight: kg/ lbs

MATERIALS
Soft resin, polyurethane elastomer
Latex free

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

RECOMMENDED DEVICES
Ultrasound machine and needles are not included.
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

**Specifications**

- Size: W48 x D23 x H29 cm
- Weight: kg/lbs
- Power: -
- Power Consumption: -

**Set Includes**

- Life size unisex torso
- 2 replacement puncture pads
- Supporting stand
- 50ml syringe

**Descriptions**

**Landmark palpation**

**Epidural anesthesia**

**Epidural anesthesia**

**Recommended Devices**

- Soft resin
- Latex free

**Replacement Parts**

- 11382-010  2 replacement puncture pads
Intradermal Injection Training Simulator

**Cost-effective training unit for venipuncture**

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

**FEATURES**

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

**SKILLS**

- Blood collection and intravenous injection

**SPECIFICATIONS**

- Size: W25 x D11 x H3 cm
- Weight: kg/lbs
- Power: AC100V, 50/60 Hz
- Power Consumption:

**SET INCLUDES**

- 5 puncture pads (vein tube embedded)
- 5 drain tubes
- 5 injector tubes

**REPLACEMENT PARTS**

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

**DESCRIPTIONS**

**MATERIALS**

- Soft resin
- Latex free

**RECOMMENDED DEVICES**

- *

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Intradermal Injection Training Simulator

**Wheat 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

**SPECIFICATIONS**

- Size: W20 x D20 x H8 cm
- Weight: kg/lbs
- Power: -
- Power Consumption: -

**SET INCLUDES**

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

**REPLACEMENT PARTS**

- 11346-010 1 replacement puncture pad

*Needle not included.*
M50B-B

Simulator Intravenous Arm II

**Set of two models for variable practice**
Palpable veins to simulate venipuncture, intravenous cannulation and injection.

<table>
<thead>
<tr>
<th>FEATURES</th>
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<tbody>
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<table>
<thead>
<tr>
<th>SKILLS</th>
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</thead>
<tbody>
<tr>
<td>Intravenous injection, blood collection and drip infusion</td>
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**DESCRIPTIONS**

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<tr>
<td>Weight: kg/ lbs</td>
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<td>Power: AC100V, 50/60 Hz</td>
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<table>
<thead>
<tr>
<th>SET INCLUDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set of spoon and plastic jar</td>
</tr>
<tr>
<td>1 instruction manual</td>
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</table>

**M50D**

Basic IV Arm

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

**FEATURES**

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**SKILLS**

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<tbody>
<tr>
<td>Tourniquet application</td>
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<tr>
<td>Venipuncture (including puncture with IV cannula)</td>
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</table>

**DESCRIPTIONS**

<table>
<thead>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>SET INCLUDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 injection bottle for simulated blood</td>
</tr>
<tr>
<td>1 carrying bag</td>
</tr>
</tbody>
</table>

**MATERIALS**

Soft resin
Latex free

**RECOMMENDED DEVICES**

-
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

**DESCRIPTIONS**

- Confirmation of flash back
- Fixation
- Application of pressure to vein

**SPECIFICATIONS**

- Size: W52 x D10 x H10 cm
- Weight: kg/ lbs
- Power: AC100V-240V, 50/60 Hz

**SET INCLUDES**

1. Arm model
2. Injection pads for dorsal veins of hand
3. Injection pads for median antebrachial vein
4. Bottle for simulated blood
5. Stand for bottle of simulated blood
6. Infusion set
7. Infusion bag
8. Syringe (50ml)
9. Plastic beaker
10. Simulated blood sticks (swab type)
11. Carrying bag

**MATERIALS**

- Soft resin
- Latex free

**RECOMMENDED DEVICES**


**REPLACEMENT PARTS**

- 11388-200  2 injection pads for median antebrachial vein
- 11388-300  2 injection pads for dorsal veins of hand
- 11388-400  10 simulated blood sticks (swab type)
Real and objective assessment to develop first class surgeons

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

Product Supervision
Prof. Hashizume, Center for Advanced Medical Innovation Kyushu University

FEATURES

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

SKILLS

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

Box trainer only
- Disadvantage: Limited to simple tasks
- Advantage: Easy to use

Wet-lab
- Disadvantage: Hard to set & clean up, concerns in ethical issues
- Advantage: Realistic

Virtual reality simulators
- Disadvantage: Lack of realistic feel
- Advantage: Objective skills assessment

Integrating Advantages of Different Training Methods

1. Easy to use
2. Realistic tissue response
3. Objective feedback
1 Quantitative Feedback combined with Realistic Hands-on Experience

The system utilizes five criteria to evaluate laparoscopic suturing skills. Each criteria has an “acceptable” range based on expert surgeons to help improve performance.

### 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?

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

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

2 Life-like Intestinal Tract

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

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

### Laparoscopic Forceps Training

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

---

### SPECIFICATIONS

- **Size:** W50 x D110 x H160 cm
- **Weight:** 93 kg/205lbs
- **Power Consumption:** 180 VA
- **Power:** AC100-240V, 50/60 Hz

### SET INCLUDES

1. monitor
2. touch-monitor
3. video camera for assessment
4. intestinal tract suture
5. video camera for assessment (skin suture)
6. video camera for procedure recording
7. torso body
8. unit base
9. printer
10. key board

---

### MATERIALS

- Soft resin
- Latex free

---

### RECOMMENDED DEVICES

- Forceps are not included.

### REPLACEMENT PARTS

-
Laparoscopic Suture Simulator -Assessment System- Compact

Quantitative Feedback combined with Realistic Hands-on Experience

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

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

SKILLS
- Laparoscopic suturing (simple interrupted suture)

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

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

Easy to set up!

SPECIFICATIONS
- Weight: 1.5kg / 3.3lbs
- (Assessment unit)
- Power: AC100V-240V 50/60Hz
- Power Consumption: 26VA : Assessment unit
  40VA : PC

SET INCLUDES
1. laparoscopic suturing assessment unit
2. power cable for assessment unit
3. set of skin sheet holder
4. cable
5. keyboard
6. PC
7. power cable for PC
8. pieces of suturing sheet (intestinal tract)
9. pieces of suturing sheet (skin)

MATERIALS
- Soft resin
- Latex free

RECOMMENDED DEVICES
- 1 container
- 1 instruction manual

REPLACEMENT PARTS
- 11395-010 30 sets of suturing sheet
  @1 set consist of inner layer & outer layer

Box trainer, display monitor, and forceps and camera are not included in set.
Effective training tool for abdominal intraoperative ultrasound examination
Phantom of abdominal organs to simulate ultrasound examinations during open and laparoscopic surgery

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

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

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

SPECIFICATIONS
Size: W30 x D38 x H17.5 cm
Weight: 5.8kg / 12.8lbs

SET INCLUDES
1. Upper abdomen ultrasound phantom
2. Stomach ultrasound phantom
3. Phantom container
4. Tutorial manual (DVD)

MATERIALS
Polyprene elastomer
Latex free

RECOMMENDED DEVICES
-
**Suture Evaluation Simulator**

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

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

**SKILLS**
- Suture: Simple interrupted suture
- Ligature: Instrument tying

**SPECIFICATIONS**
Power: AC100V-240V, 50/60 Hz

**DESCRIPTIONS**

**MATERIALS**
- Movie demonstration (CD)
- Storage case
- Instruction manual

**REPLACEMENT PARTS**
- 11230-010 40 simulated skins

*Instruments are not included.

---

**Laparoscopic Suture Evaluation Simulator**

Quantitative assessment of suturing skills using laparoscopic forceps.

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

**SKILLS**
- Suture: Simple interrupted suture
- Ligature: Instrument tying

**SPECIFICATIONS**
Power: AC100V-240V,  50/60 Hz

**DESCRIPTIONS**

**MATERIALS**
- Instruction manual

**REPLACEMENT PARTS**
- 11230-010 40 simulated skins

*Instruments are not included.

*Training box is not included in the standard set.

---

Instruments are not included.
Clinical Skills - Suture -

DESCRIPTIONS

KEY FEATURES

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}

AAA

FEATURES SKILLS

REPLACEMENT PARTS

MATERIALS

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

SPECIFICATIONS

- Soft resin
  Latex free

RECOMMENDED DEVICES

- 

Suture Practice Trainers - Full set -

Various types of skins to improve the basic of suturing skills

<table>
<thead>
<tr>
<th>Abdomen</th>
<th>Blood vessel</th>
<th>Intestine</th>
<th>Limbs</th>
</tr>
</thead>
</table>

1 set of instruments
- needle-holders
- suture needles
- scissors
- suture threads
- tweezers
- storage case

1 set of simulated skins, ducts, and supporters
- abdomen set: 2 abdominal skins, 1 supporter
- blood vessels: 5 narrow tubes
- intestine set: 5 wide tubes, 1 supporter
- limbs set: 2 narrow skins, 1 supporter

1 set of simulated skins, ducts, and supporters
- abdomen set: 2 abdominal skins, 1 supporter
- blood vessels: 5 narrow tubes
- intestine set: 5 wide tubes, 1 supporter
- limbs set: 2 narrow skins, 1 supporter

Kyoto Kagaku Product Lineup Web
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.

KEY FEATURES

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

SKILLS

| Tracheal intubation |
| Intubation and ventilation on difficult airways |

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.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Size: W50 x D110 x H160 cm W19.7 x D43.3 x H63 inch</th>
<th>Weight: 82 kg/181 lbs</th>
<th>Power: AC100-240V, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>------------------------------------------------------</td>
<td>-----------------------</td>
<td>----------------------------</td>
</tr>
</tbody>
</table>

SET INCLUDES

1. Unit base
1. keyboard
1. Monitor sound
1. Video camera
1. Lubricant for manikin
1. Instruction manual
1. Printer
1. Stereo mini plug

MATERIALS

- Soft resin
- Latex free

REPLACEMENT PARTS

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

RECOMMENDED DEVICES

- (Macintosh laryngoscope) blade size 4
- (Endotracheal tube) internal diameter 7.5mm
- (Video laryngoscope) AWS-S200

* Instruments are not included.
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**

1. 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
2. Upper incisors are designed to break off when excessive force is applied.

**Set Includes**

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

**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
- 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

**Specifications**

- Size: W70 x D39 x H25 cm
- Weight: 6.6kg / 14.6lbs

**Materials**

- Soft resin
- Latex free

**Replacement Parts**

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

**Recommended Devices**

- (Macintosh laryngoscope) blade size 3, 4
- (Endotracheal tube) internal diameter 7.0mm, 7.5mm
- UMA Supreme: size 4
- I-gel: size 4

**Optional Parts**

- 11384-100 bronchofiberscopy training unit

---

**Key Features**

- 80

**Skills**

- Clinical Skills - Airway Procedure -
### 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

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>W45 x D20 x H25 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>2.65 kg/ 5.84 lbs</td>
</tr>
<tr>
<td>Power Consumption</td>
<td></td>
</tr>
</tbody>
</table>

**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"

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>W45 x D20 x H25 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>2.65 kg/ 5.84 lbs</td>
</tr>
</tbody>
</table>

**Materials**

- Soft resin
- Latex free

**Replacement Parts**

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

**Recommended Devices**

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

* Instruments are not included.
**FAST/Acute Abdomen Phantom "FAST/ER FAN"**

**Conduct "FAST" assessment to save a trauma patient!**

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

**SPECIFICATIONS**

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

**SET INCLUDES**

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

---

**DESCRIPTIONS**

- **FAST**
  - Cardiac Tamponade
  - Right Upper Abdominal Bleeding
  - Perisplenic Hemorrhage
  - Hemorrhage at Rectovesical Area

- **Acute abdomen**
  - Inflammation of the Gallbladder
  - Aneurysm
  - Appendicitis
  - Diverticulitis

**MATERIALS**

- Polyurethane elastomer
- Latex free

**RECOMMENDED DEVICES**

- *Ultrasound scanner is not included.*
US-18

Fundamental Ultrasound Phantom

This oval phantom which helps sonographers with basic trainings

**FEATURES**

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

**SKILLS**

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

**SPECIFICATIONS**

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

**MATERIALS**

- Polyurethane elastomer
- Latex free

**RECOMMENDED DEVICES**

- *

**REPLACEMENT PARTS**

- *

*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 in ultrasound examination on rheumatoid arthritis
2. Synovial thickening and increased synovial fluid are simulated on middle and ring finger.

**SKILLS**

- Ultrasound examination on rheumatoid arthritis

**SPECIFICATIONS**

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

**MATERIALS**

- Polyurethane elastomer
- Latex free

**RECOMMENDED DEVICES**

- *

**REPLACEMENT PARTS**

- *

*Ultrasound scanner is not included.
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**

- 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

**Specifications**

- Size: 30 x 26 x 18 cm
- Pocket-sized device
- Phantom: 1.5kg / 3.3lbs
- Body: 3.2kg / 7.1lbs

**Set Includes**

- Lower torso manikin
- Ultrasound blocks
- Storage case
- Instruction manual

**Materials**

- Latex free

**Recommended Devices**

- -
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.

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>DESCRIPTIONS</th>
<th>RECOMMENDED DEVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size:</strong> 19 x 22 x 7 cm 7.6 x 8.8 x 2.8 in.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight:</strong> 3.6kg/ lbs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SET INCLUDES**
- 1 phantom
- 1 carrying case

**MATERIALS**
- Urethane elastomer, acryl, nylon
- Latex free

Breast Ultrasound QA Phantom

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

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

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

**SPECIFICATIONS**
- **Size:** mass targets block phantom size: 18 x 7.5 x 11 cm / 7.2 x 3 x 4.4 inch
dot targets block phantom size: 13.5 x 7.5 x 11 cm / 5.4 x 3 x 4.4 inch
- **Weight:** Mass 1.3kg / 2.7lbs
  Dot 1.0kg / 2.2lbs

**MATERIALS**
- Urethane elastomer, acryl, nylon
- Latex free
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)

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

The stomach can be opened to see the inner structures.

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

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

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

MATERIALS
Soft resin
Latex free
A2D

Dissectible Anatomy of Arm (parts)

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

A3D

Dissectible Anatomy of Leg (parts)

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

TM90-2

Junior Torso -Advanced Model-

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

M42

Muscles of Arm

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

A144

Nerves and Vessels of Arm

A full replica of the arm’s blood vessels and nerves. A great addition to education regarding intravenous procedures.
Circulatory System Model Life-sized

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

Circulatory System Model

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.

Circulatory System with Skelton Model

Circulatory System Model Life-sized and Scaled versions
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.

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.

Brain with Color Coded Cortical Area

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

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.
**Head Cross Section Model**

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

**Nasal Cavity Model**

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

**Tongue and Larynx Model**

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

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

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.

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.

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.
<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A69</td>
<td>Liver, Kidneys and Spleen Model</td>
</tr>
<tr>
<td>A71</td>
<td>Intestines Model</td>
</tr>
<tr>
<td>A32</td>
<td>Tract and Reflection of Spinal Nerve Model</td>
</tr>
<tr>
<td>A136</td>
<td>Coronary Arterial Model</td>
</tr>
</tbody>
</table>

**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.

**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.

**Tract and Reflection of Spinal Nerve Model**

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

**Coronary Arterial Model**

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

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1A</td>
<td>Human Anatomy Torso (dual sex)</td>
</tr>
<tr>
<td>A2D</td>
<td>Dissectible Anatomy of Arm (parts)</td>
</tr>
<tr>
<td>A3D</td>
<td>Dissectible Anatomy of Leg (parts)</td>
</tr>
<tr>
<td>A25</td>
<td>Nervous System Model</td>
</tr>
<tr>
<td>A27</td>
<td>Brain with Color Coated Cortical Area</td>
</tr>
<tr>
<td>A32</td>
<td>Tract and Reflection of Spinal Nerve Model</td>
</tr>
<tr>
<td>A36</td>
<td>Eye anatomy B</td>
</tr>
<tr>
<td>A48-1</td>
<td>Bronchus and Pulmonary Vessels Model</td>
</tr>
<tr>
<td>A54</td>
<td>Circulatory System Model</td>
</tr>
<tr>
<td>A59</td>
<td>Heart Anatomy B</td>
</tr>
<tr>
<td>A61</td>
<td>Circulatory System Model</td>
</tr>
<tr>
<td>A62</td>
<td>Circulatory System with Skelton Model</td>
</tr>
<tr>
<td>A69</td>
<td>Liver, Kidneys and Spleen Model</td>
</tr>
<tr>
<td>A71</td>
<td>Intestines Model</td>
</tr>
<tr>
<td>A83A</td>
<td>Pregnant Uterus Model</td>
</tr>
<tr>
<td>A89</td>
<td>Fetal Development Model Set</td>
</tr>
<tr>
<td>A100</td>
<td>Nervous and Circulatory System</td>
</tr>
<tr>
<td>A106</td>
<td>Tongue and Larynx Model</td>
</tr>
<tr>
<td>A107</td>
<td>Head Cross Section Model</td>
</tr>
<tr>
<td>A120</td>
<td>Cerebral Arteries</td>
</tr>
<tr>
<td>A123A</td>
<td>Bronchus, Pulmonary Vessels Model</td>
</tr>
<tr>
<td>A136</td>
<td>Coronary Arterial Model</td>
</tr>
<tr>
<td>A142</td>
<td>Coronary Artery and Conducting System Model</td>
</tr>
<tr>
<td>A144</td>
<td>Nerves and Vessels of Arm</td>
</tr>
</tbody>
</table>

## Simulators

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M43B</td>
<td>Lumbar Puncture Simulator II</td>
</tr>
<tr>
<td>M43D</td>
<td>Ultrasound Compatible Lumbar Puncture/ Epidural Simulator</td>
</tr>
<tr>
<td>M43E</td>
<td>Epidural Simulator</td>
</tr>
<tr>
<td>M44</td>
<td>Visual-Tactile Breast Examination Simulator</td>
</tr>
<tr>
<td>M50D</td>
<td>Basic IV Arm</td>
</tr>
<tr>
<td>M50B-B</td>
<td>Simulator Intravenous Arm II</td>
</tr>
<tr>
<td>M55</td>
<td>Physical Assessment Simulator “Physiko”</td>
</tr>
<tr>
<td>M56B</td>
<td>Pediatric Patient Care Simulator</td>
</tr>
<tr>
<td>M57B</td>
<td>Suture Evaluation Simulator</td>
</tr>
<tr>
<td>M57C2</td>
<td>Laparoscopic Suture Evaluation Simulator</td>
</tr>
<tr>
<td>M58</td>
<td>Newborn Vital Signs Examination Simulator</td>
</tr>
<tr>
<td>M59/M63</td>
<td>Newborn Bathing and Nursery Care Model</td>
</tr>
<tr>
<td>M66</td>
<td>Medical Foot Care Simulator</td>
</tr>
<tr>
<td>M69</td>
<td>Pressure Sores Care Simulator</td>
</tr>
<tr>
<td>M71</td>
<td>Breast Self Examination Model - body-worn type -</td>
</tr>
<tr>
<td>M82</td>
<td>EYE Examination Simulator (3 steps)</td>
</tr>
<tr>
<td>M82A</td>
<td>EYE Examination Simulator (2 steps)</td>
</tr>
<tr>
<td>M83</td>
<td>Suture Practice Trainers -Full set-</td>
</tr>
<tr>
<td>M85</td>
<td>Airway Suction Trainer</td>
</tr>
<tr>
<td>M87</td>
<td>Strap-on Venipuncture Simulator</td>
</tr>
<tr>
<td>M93C</td>
<td>CVC Insertion Simulator III</td>
</tr>
<tr>
<td>M93UB</td>
<td>CVC Insertion Simulator II</td>
</tr>
<tr>
<td>M94</td>
<td>Intradermal Injection Training Simulator</td>
</tr>
<tr>
<td>M95</td>
<td>Simulator Pediatric IV Hand</td>
</tr>
<tr>
<td>M99</td>
<td>Arterial Puncture Training Wrist</td>
</tr>
</tbody>
</table>

### MW Simulators

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW1</td>
<td>Pitting Edema Simulator</td>
</tr>
<tr>
<td>MW2A/2B</td>
<td>Female / Male Catheterization/Enema Simulator</td>
</tr>
<tr>
<td>MW3</td>
<td>Epidural Anesthesia Simulator</td>
</tr>
<tr>
<td>MW4</td>
<td>Ultrasound-Guided Thoracentesis/ Pericardiocentesis Simulators</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>MW4A</td>
<td>Ultrasound-Guided Thoracentesis/Pericardiocentesis Simulators</td>
</tr>
<tr>
<td>MW7B</td>
<td>Blood Pressure Measurement Trainer ver.2</td>
</tr>
<tr>
<td>MW8</td>
<td>Tube Feeding Simulator (NG, OG and PEG)</td>
</tr>
<tr>
<td>MW9</td>
<td>Peripheral Venous Catheter Placement Simulator</td>
</tr>
<tr>
<td>MW10</td>
<td>Cardiology Patient Simulator “K” ver.2</td>
</tr>
<tr>
<td>MW11</td>
<td>Difficult Airway Management Simulator -Assessment System</td>
</tr>
<tr>
<td>MW12</td>
<td>EAR Examination Simulator II</td>
</tr>
<tr>
<td>MW13</td>
<td>Difficult Airway Management Simulator -Training Model</td>
</tr>
<tr>
<td>MW14</td>
<td>Difficult Airway Management Simulator -Demonstration Model</td>
</tr>
<tr>
<td>MW15</td>
<td>Ultrasound-Guided Thoracentesis/Pericardiocentesis Simulators</td>
</tr>
<tr>
<td>MW16</td>
<td>Laparoscopic Suture Simulator -Assessment System</td>
</tr>
<tr>
<td>MW17</td>
<td>Ultrasound-Guided Thoracentesis/Pericardiocentesis Simulators</td>
</tr>
<tr>
<td>MW18</td>
<td>Ultrasound-Guided PICC Training Simulator</td>
</tr>
<tr>
<td>MW19</td>
<td>Difficult Airway Management Simulator for Bronchofiberscopy</td>
</tr>
<tr>
<td>MW20</td>
<td>Prostate and Rectal Simulator</td>
</tr>
<tr>
<td>MW21</td>
<td>NCPR Simulator Plus</td>
</tr>
<tr>
<td>MW22</td>
<td>Patient Care Simulator &quot;Cherry&quot;</td>
</tr>
<tr>
<td>MW24</td>
<td>3D Colonoscopy Training Simulator NKS</td>
</tr>
<tr>
<td>MW25</td>
<td>Patient Care Simulator &quot;Yaye&quot;</td>
</tr>
<tr>
<td>MW26</td>
<td>Basic Patient Care Simulator &quot;Keiko&quot;</td>
</tr>
<tr>
<td>MW28</td>
<td>Lung Sound Auscultation Trainer &quot;LSAT&quot; ver.2</td>
</tr>
<tr>
<td>MW2810</td>
<td>Patient Simulator &quot;K&quot; Plus Training System ver.2</td>
</tr>
<tr>
<td>MW29</td>
<td>Oral Care Simulator Advanced</td>
</tr>
<tr>
<td>MW30</td>
<td>Head and Neck Palpation Trainer</td>
</tr>
<tr>
<td>MW31</td>
<td>Head and Neck Palpation Trainer for OSCE</td>
</tr>
<tr>
<td>MW32</td>
<td>NCPR Simulator</td>
</tr>
<tr>
<td>MW33</td>
<td>ELBW Infant Simulator</td>
</tr>
<tr>
<td>MW34</td>
<td>Obstetric Examination Simulator</td>
</tr>
<tr>
<td>MW35</td>
<td>Cervical Assessment Simulator</td>
</tr>
<tr>
<td>MW36</td>
<td>Vaginal Delivery Assistance Simulator</td>
</tr>
<tr>
<td>MW37</td>
<td>Perineorrhaphy Simulator</td>
</tr>
<tr>
<td>MW38</td>
<td>Uterine Involution Assessment Simulator</td>
</tr>
<tr>
<td>MW39</td>
<td>Endoscopy Training System (ETS)</td>
</tr>
<tr>
<td>MW40</td>
<td>Obstetric Training Simulator -complete set</td>
</tr>
<tr>
<td>MW43</td>
<td>Abdominal Simulator for Examination</td>
</tr>
<tr>
<td>MW48</td>
<td>Full Perinatal Patient Care Simulator &quot;Hana&quot;</td>
</tr>
</tbody>
</table>

**US Ultrasound Phantoms**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>US-1</td>
<td>Ultrasound Examination Training Phantom “ECHOZY”</td>
<td>59</td>
</tr>
<tr>
<td>US-1B</td>
<td>Ultrasound Examination Training Phantom “ABDFAN”</td>
<td>58</td>
</tr>
<tr>
<td>US-2</td>
<td>Ultrasound QA Phantom</td>
<td>85</td>
</tr>
<tr>
<td>US-3</td>
<td>Abdominal Intraoperative &amp; Laparoscopic Ultrasound Phantom &quot;IOUSFAN&quot;</td>
<td>75</td>
</tr>
<tr>
<td>US-4</td>
<td>Breast Ultrasound Phantom</td>
<td>85</td>
</tr>
<tr>
<td>US-5</td>
<td>FAST/Acute Abdomen Phantom “FAST/ER FAN”</td>
<td>82</td>
</tr>
<tr>
<td>US-6</td>
<td>Breast Ultrasound Examination Phantom &quot;BREAST FAN&quot;</td>
<td>11</td>
</tr>
<tr>
<td>US-7α</td>
<td>Fetus Ultrasound Examination Phantom “SPACE FAN-ST”</td>
<td>7</td>
</tr>
<tr>
<td>US-8</td>
<td>Pediatric FAST/Acute Abdomen Phantom</td>
<td>9</td>
</tr>
<tr>
<td>US-9</td>
<td>Ultrasound-Guided Breast Biopsy Phantom</td>
<td>12</td>
</tr>
<tr>
<td>US-10</td>
<td>Female Pelvic Ultrasound Phantom</td>
<td>6</td>
</tr>
<tr>
<td>US-11</td>
<td>Scrotal Ultrasound Phantom</td>
<td>54</td>
</tr>
<tr>
<td>US-13</td>
<td>Infant Hip Sonography Training Phantom</td>
<td>10</td>
</tr>
<tr>
<td>US-14a/b</td>
<td>Ultrasound Neonatal Head Phantoms</td>
<td>8</td>
</tr>
<tr>
<td>US-16</td>
<td>Intradermal Urine Volume Measurement Phantom</td>
<td>84</td>
</tr>
<tr>
<td>US-17</td>
<td>Rheumatoid Phantom</td>
<td>83</td>
</tr>
</tbody>
</table>

**Others**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM90-2</td>
<td>Junior Torso -Advanced Model</td>
<td>87</td>
</tr>
<tr>
<td>-</td>
<td>Laparoscopic Suture Simulator -Assessment System</td>
<td>74</td>
</tr>
<tr>
<td>-</td>
<td>Circulatory System Model Life-sized</td>
<td>88</td>
</tr>
<tr>
<td>-</td>
<td>Fundamental Ultrasound Phantom</td>
<td>83</td>
</tr>
</tbody>
</table>
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+81-75-605-2519

Kyoto Kagaku Co., Ltd.
Hong Kong Representative Office
Level 60, One Island East, 18 Westlands Road, Island East, Hong Kong
+852-3978-1365 +852-3978-1199

Kyoto Kagaku Co., Ltd.
European Representative Office
De-Saint-Exupery-Str.10, 60549 Frankfurt, Germany
+49-69-5060-28160 +49-69-5060-28170

Jun. 19th, 2019