# LIFE SIMULATION MODELS 2014-2015

Creating a New Future



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KRKEN

LIFE SIMULATION MODELS

2014-2015











chniques aining Model

The culmination of Koken original polymer technology assures remarkably lifelike feel and appearance. These models support the education of medical, nursing and emergency care professionals

The speed of progress in the field of medicine continues to increase each day. In the field, increasing demands on the precision of medical procedures have made necessary even higher levels of technical training. To support the education of medical, nursing and emergency care professionals, Koken offers a complete line of life simulation models for educational and training use. Koken is proud of its long history in this field, having developed a great deal of original technology and manufacturing techniques which have contributed to high levels of quality. This can be seen not only in the shape and weight of the products, but also in their remarkable realism in the feel of the silicone rubber skin, the way the joints move and the resiliency and response to movement. This has earned them high praise worldwide.

Professionals in the field have remarked that Koken life simulation models have contributed to a distinct improvement in the quality of education. This is testament to the expertise and advanced technology that Koken has accumulated in this field over the years. Koken continues to make efforts to improve quality with the aim of improving the basic abilities of medical professionals and strengthening the system of clinical training while, from the viewpoint of contributing to the overall quality of life, raising the level of nursing training and increasing the survival rate in emergency care.

In each location where medical care takes place, it is Koken's hope that better educated professionals are better prepared to face the challenges of treatment. In particular, in recent years we have seen the development of automatic external defibrillators (AED) that can be used by an ordinary person, representing a greater public awareness of emergency resuscitation. This is certain to result in an expansion of the educational market for some of these products. Koken, with its proven technology and product track record, is a step ahead with a vision to meet new and more diverse needs as they arise.

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# **Koken Baby Series**



Neonatal Resuscitation Model 0-3 months p.84

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# **Koken Endoscopy Training Series**



# Full-Body Pregnancy Simulator (Obstetric Model - Vulva II)

with storage case and bags

# **Outline**

By interchanging various parts, procedures such as external examination of a pregnant woman, internal examination during stages of delivery, practical obstetric assistance, perineal suture of soft birth canal lacerations, palpation of the uterus fundus during the puerperal period, and breast care can be practiced. Obstetric assistance can be practiced on the model in either a supine or free-style position.

New material enables smoother free-style delivery

# **Features**

#### **Obstetric Abdominal Palpation Model**

- Represents the 36th to 40th weeks of pregnancy.
- Visual diagnosis, palpation and abdominal measurements (abdominal girth, fundal height) according to the four types of Leopold's Maneuvers, monitoring of fetal heartbeats, and breast care can be practiced.
- Changing the position and orientation of the fetus enables diagnosis in various fetal positions and orientations, and diagnosis of stability and mobility of the fetal presenting part.
- The fetal heartbeat can be adjusted between 80 and 180 bpm.

#### **Vaginal Examination Model**

- Bishop scores from the late stage of pregnancy to the onset of labor (cervical dilation, effacement, consistency and position) can be confirmed.
- Three models with varying degrees of uterus opening dilation are provided, along with a model of the fetal head. These can be interchanged and the degree of engagement of fetal head can be adjusted, making it possible to gauge the progression of labor by means of vaginal examination.
- The fetal head model can be used to gauge rotation of the fetal head by varying positions of the sagittal sutures and posterior fontanel.
- The vulva has a urethral orifice for inserting a urinary catheter.





Perineal suture Model

#### Breast Model

abdominal area.

- This model enables basic training in breast care, including breast and nipple palpation, inspection of breast mobility, and nipple massage.
- Flexibility and mobility of the entire breast allows palpation of the mammary glands.

#### **Spares**



① LM-0641 Full-body manikin (with skin for abdominal palpation)



CMP0042
 Fetus model with amnion (with storage bag)
 LM-0643
 Seitz method adjustment base (standard/plus)



 ④ LM-0644
 Puerperal skin (Uterus recession model fixation base)
 ⑤ LM-0645
 Uterus recession model (4 types)



6 LM-0631
 Vaginal examination model-vulva



⑦ LM-101P Obstetric model-vulva II (Primipara type)
 ⑧ LM-0633 Fetal model
 ⑨ LM-0634 Placenta model
 ⑩ LM-101D Umbilical cord kit



 UM-0635
 Perineal suture model - vulva (with laceration model left and right)

# Full-Body Pregnancy Simulator (Obstetric Model - Vulva II) LM-101C

Practical Training

Nursing Health Education Models

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Leopold's Maneuvers

Obstetric Abdominal Palpation



Monitoring of the Fetal Heartbeat

Vaginal Examination



Vaginal Examination



Exchange of Parts

**Breast Care** 



Palpation of the Basal Ablation



Expressing Breast Milk

#### **Puerperal Uterus Palpation**



Palpation









Fetus Head Extraction

Breech Extraction



Suture of Soft Birth Canal Laceration

Components			
Main body	Full-body manikin (with an abdominal cover and fixing screws)	1	
	Skin for obstetric abdominal palpation model	1	
	Fetus model with amnion	1	
	Seitz method standard adjustment base	1	
Obstetric abdominal palpation	Seitz method plus adjustment base	1	
parts	AC adapter	1	
	Extension cord for fetal heartbeats cord	1	
	Baby powder	1	
	Parts storage bag	2	
	Vaginal examination model-vulva LM-0631		
Vaginal examination parts	(with 3 types of uterus dilation models, a fetal head model, and a storage case)	1	
	Glycerin	1	
	Obstetric model - vulva II (primipara type) LM-101P (with fixing screws)	1	
	Fetal model LM-0633	1	
Obstatuia assistant parta	Placenta model LM-0634	1	
Obstetric assistant parts	Umbilical cord kit (for tying and cutting): (3 umbilical cords and 1 umbilical cord connector)	1	
	Glycerin	1	
Perineal suture parts	Perineal suture model - vulva LM-0635 (with a right laceration and a left perineal suture part)	1	
	Skin for puerperal palpation model	1	
Puerperal uterus palpation	Uterus recession models (4 types)	1	
parts	Uterus recession model fixation base	1	
	Baby powder	1	
	Parts storage bag	1	

#### Specifications

Main Body (Full-body manikin)

Dimensions	Approx. 177 (L) $\times$ 44(W) $\times$ 25 (H) cm
Weight	Approx. 17 kg

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Midwifery Practice Model Set (Obstetric Model - Vulva II)

with storage case

New material

# Outline

A series of midwifery techniques such as diagnosis of onset of labor, obstetric assistance and perineal suture can be practiced by interchanging several parts.



# **Features**

#### Vaginal Examination Model

- Bishop scores from the late stage of pregnancy to the onset of labor (cervical dilation, effacement, consistency and position) can be confirmed.
- Three models with varying degrees of uterus opening dilation are provided, along with a model of the fetal head. These can be interchanged and the degree of engagement of fetal head can be adjusted, making it possible to gauge the progression of labor by means of vaginal examination.
- The fetal head model can be used to gauge rotation of the fetal head by varying positions of the sagittal sutures and posterior fontanel.
- The vulva has a urethral orifice for inserting a urinary catheter.

#### **Obstetric Assistant Model**

- The obstetric model vulva II is made with a highly elastic and durable material that decreases resistance and reduces the amount of force needed to extract the fetus during delivery, enabling smooth practice. (Use glycerin to lubricate.)
- Protection of the perineum can be practiced.
- Breech extraction can also be practiced as one type of emergency response.
- The umbilical cord is soft and slides away from scissors when being cut, so that each one can be used multiple times to practice tying and cutting.
- The fetal model and placenta model can be attached to practice the entire sequence of steps from delivering the fetus to tying the umbilical cord, cutting the umbilical cord, and delivering the placenta.
- The placental membrane laceration part can be detached into three parts for inspection of the placenta and checking whether or not the membrane is intact.

#### **Perineal Suture Model**

- This model enables confirmation of the perineal laceration position and level of laceration, and practice in preparing for and performing a suture.
- Use of forceps can also be practiced.

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# Type of Practice

## Vaginal Examination



#### **Obstetric Assistance**



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#### **Perineal Suture**



# Midwifery Practice Model Set LM-101A Spare Parts



 Vaginal Examination Model - Vulva
 LM-0631

 Vulva
 Dimensions : Approx. 19 (L) × 17 (W) × 15 (H) cm

 Weight : Approx. 1 kg
 with 3 dilation uterus models and fetal head model

 with storage case
 with storage case



 Fetal Model
 LM-0633

 Height : Approx. 40 cm
 Weight : Approx. 2030g

 Head Circumference: Approx. 30 cm
 Head Circumference: Approx. 30 cm



 Placenta Model
 LM-0634

 O.D.: Approx. 19 cm
 Weight : Approx. 660 g

 Length of Umbilical Cord: Approx. 51 cm
 S1 cm



 $\frac{\textbf{Obstetric Model Vulva II-Primipara Type LM-101P}}{\text{Dimensions: Approx. 17 (L) $$\times$ 17 (W) $$\times$ 8 (H) cm}$  Weight : Approx. 0.6 kg





Primipara & Multipara Type LM-101S



Umbilical Cord KitLM-101DComponents:Umbilical cord (Approx.12cm)1pcUmbilical cord connector (Approx.4cm)1pc



Umbilical Cord for Replacement (10pcs) LM-101E



 Perineal Suture Model - Vulva
 LM-0635

 Vulva Dimensions : Approx. 16 (L) ×17 (W) × 12 (H) cm
 Weight : Approx. 0.4kg

 with 1 pc each of left and right laceration model
 Velocities



Perineal Suture ModelLM-0636Dimensions : Approx. 6 (L) × 10 (W) × 5 (H) cmWeight : Approx. 40gLeft Laceration 5 pcsRight Laceration 5 pcs



Midwifery Practice Model - Main body LM-0637 with cloth cover and obstetric assistance guide Dimensions : Approx. 30 (L) ×51 (W) × 28 (H) cm Weight : Approx. 2.8 kg

Nursing Health Education Models

#### Components

Main body	1
Fetal model	1
Placenta model	1
Obstetric model - vulva II (primipara type)	1
Vaginal examination model-vulva LM-0631 (with 3 types of uterus dilation models, a fetal head model, and a storage case )	1
Perineal suture model - vulva LM-0635 ( with a right laceration and a left perineal suture part )	1
Umbilical cord kit (for tying and cutting) : ( 3 umbilical cords and 1 umbilical cord connector )	1

# Various Sets



#### Vaginal Examination Model Set LM-0631 + LM-0637 with main body

- Bishop scores from the late stage of pregnancy to the onset of labor (cervical dilation, effacement, consistency and position) can be confirmed.
- Three models with varying degrees of uterus opening dilation are provided, along with a model of the fetal head.
   These can be interchanged and the degree of engagement of fetal head can be adjusted, making it possible to gauge the progression of labor by means of vaginal examination.
- The fetal head model can be used to gauge rotation of the fetal head by varying positions of the sagittal sutures and posterior fontanel.
- The vulva has a urethral orifice for inserting a urinary catheter.



Obstetric Assistant Model Set (Obstetric Model - Vulva II)
LM-101B
with main body

- The obstetric model vulva II is made with a highly elastic and durable material that decreases resistance and reduces the amount of force needed to extract the fetus during delivery, enabling smooth practice. (Use glycerin to lubricate.)
- Protection of the perineum can be practiced.
- Breech extraction can also be practiced as one type of emergency response.
- The umbilical cord is soft and slides away from scissors when being cut, so that each one can be used multiple times to practice tying and cutting.
- The fetal model and placenta model can be attached to practice the entire sequence of steps from delivering the fetus to tying the umbilical cord, cutting the umbilical cord, and delivering the placenta.
- The placental membrane laceration part can be detached into three parts for inspection of the placenta and checking whether or not the membrane is intact.



#### Perineal Suture Model Set LM-0635 + LM-0637 with main body

- This model enables confirmation of the perineal laceration position and level of laceration, and practice in preparing for and performing a suture.
- Use of forceps can also be practiced.

LM-101P Primipara Type /LM-101M Multipara Type /LM-101S Primipara Type & Multipara Type

# Obstetric Model-Vulva II



Primipara type LM-101P



# **Features**

- It is softer and more elastic than the previous model, enabling even more realistic delivery.It is made with a material that is more tear-resistant than the previous model, increasing its
- durability during delivery.
  It has less resistance during delivery than the previous model, so that the fetus can be pushed with less force, enabling smoother and more realistic practice. (Use glycerin to lubricate.)





The vulva stretches well when the fetal head comes out.

The fetal head can be felt with the hand when protecting the perineum.

#### Specifications

Dimensions	Approx. 17 (L) $ imes$ 17 (W) $ imes$ 8 (H) cm
Weight	Approx. 600g

# **Umbilical Cord Kit**



## Outline

Can be attached to the fetal model and placenta model to practice the entire sequence of steps from delivering the fetus to tying and cutting the umbilical cord and delivering the placenta.



Umbilical cord kit LM-101D

Components Umbilical cord (Approx.12cm) 1pc Umbilical cord connector (Approx.4cm) 1pc

[Spare Parts] Umbilical cord for replacement (10pcs) LM-101E

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#### **Features**

- A single umbilical cord can be used multiple times to practice tying and cutting.
- The umbilical cord has a tear-resistant texture that slides away from scissors when being cut. (There are no arteries or veins in the umbilical cord.)
- The new material used is soft and tear-resistant, and enables trainees to practice tying an umbilical cord with an umbilical cord clamp.



Attaches to the fetus and the placenta model.



Umbilical cord clamp can be attached.



Umbilical cord can be cut.

#### LM-101F

# Vaginal Examination Model-Vulva II

Optional parts for vaginal examination

## Outline

This model is made with a new material that stretches well and is tear-resistant, for more durability than the previous model and better simulation of the texture of human skin.



## Features

- Bishop scores from the late stage of pregnancy to the onset of labor (cervical dilation, effacement, consistency and position) can be confirmed.
- Made with a material that is more tear-resistant than the previous model, increasing its durability.\*
- The mucous membrane of the vaginal cavity is made with a new material that simulates the texture of the human vaginal cavity.\*
- The vaginal walls give a sensation of clinging to the fingers.\*
- The excess constriction on the fingers felt when using the previous model has been reduced to enable practice with a feeling that closer simulates that of the human body.\*
- Gives a more realistic feel of the ischial spines and pubic symphysis during vaginal examination. (When used on the main body.)\*
- Three models with varying degrees of uterine opening dilation are provided, along with a model of the fetal head. These can be interchanged and the degree of engagement can be adjusted, making it possible to gauge the progression of labor by means of vaginal examination.
- The fetal head model can be used to gauge rotation of the fetal head by varying positions of the sagittal sutures and posterior fontanel.
- The vulva has a urethral orifice for inserting a urinary catheter.

\*are comparisons with previous Koken models.





#### Components

Vaginal examination model-vulva II	1
Fixing screws	2
Uterus dilation model seals	1

Specifications		
Vaginal examination	model-vulva l	I

Dimensions	Approx. 19 (L) $ imes$ 17 (W) $ imes$ 15 (H) cm
Weight	Approx. 2kg

# Fetal Head Extractor For Obstetric Model

# Outline

This Fetal Head Extractor can be used for Midwifery Practice Model Set and Obstetric Assistant Model Set.



## Features

- At the stage of extraction, a stable appearing and crowning of the fetal head can be reproduced.
- Extraction speed of fetal head can be adjustable, and the fetal head can be extracted without excessive power.
- After extraction of fetal head, please extract fetus by pushing with hand.





Main body (LM-0637) is sold separetely

#### Specifications

Dimensions	Approx. 48 (L) $\times$ 26 (W) $\times$ 16 (H) cm
Weight	Approx. 2.8 kg
Material	Hard plastic (ABS)

# Maternity Model Type I

with storage cover

# Outline

This life-sized model can be used for training of Leopold's 4-step Maneuver, monitoring the heartbeat of the fetus and abdominal measurement. By inflating air instead of amniotic fluid (water), a very realistic feel is reproduced. An internal synthesizer reproduces the realistic heartbeat sound of fetus. Volume and speed are adjustable.



## **Features**

- This life-sized model can be used for training of Leopold's 4-step Maneuver, external pelvic measurement, monitoring the heartbeat of the fetus, and breast care.
- Made of a special silicone rubber, the skin of this accurately shaped model feels very much like human skin, providing trainees with a remarkably realistic experience.
- For easier handling and control, inflation and adjustment of air volume inside the uterus enables an extremely lifelike sensation of both mother and fetus.
- Inside is a highly accurate skeletal structure which enables realistic practice of pulvimetry and abdominal measurement. It feels just like the human body.
- An internal synthesizer reproduces the realistic heartbeat sound of the fetus. Volume and speed are adjustable.
- Traube stethoscope monitoring of the fetal heartbeat can also be practiced. The heartbeat sound can also be heard through the loud speaker.





Leopold's 4-step Maneuver



Fetus and Internal Construction

#### Specifications

Dimensions	Approx. 52 (L) $ imes$ 35 (W) $ imes$ 26 (H) cm	
Veight	Approx. 6 kg	
Components		
Main body		1

Main body	1
Fetus	1
AC adaptor	1
Birth canal pad (large, small)	1each
Storage cover	1
Baby powder	1

Power is supplied by the AC adaptor

# LM-080 ECV(External Cephalic Version) Model

# **Outline**

Representing 36th weeks of Japanese pregnant women. ECV technique can be practiced. By pouring glycerin as simulation amniotic fluid into the amniotic sac, ECV technique can be practiced with the rotation of fetus. The amniotic fluid can be changed on purpose.



## Features

- Made of a special silicone rubber, the skin of this accurately shaped model feel very much like human skin, providing trainee with a remarkably realistic experience.
- This life-sized model can be used for ECV(rotation of fetus), external pelvic measurement and breast care.
- The shape of amniotic sac comply to the pelvic makes realistic training possible.
- The head, hands and legs of fetus is harder than other part, and the backbone is structured at the back, so the fetus conditions can be palpated on the skin.
- The volume of amniotic fluid can be adjusted.

# Practical Training

- ECV(rotation of fetus )
- External pelvic measurement
- Breast care

#### Specifications

Main body	Approx.36(L) × 52(W) × 27(H)cm	Approx.4.8 kg
Amniotic sac	Approx.26.5(L) × 35(W) × 17.5(H)cm	Approx.3.6 kg

#### Components

Main body	1
Amniotic sac with fetus	1
Abdominal skin	1
Polyethylene tank	1
Coupler for drying the inside of amniotic sac	1

#### Spares

LM-080A	Amniotic sac with fetus	1
LM-080B	Abdominal skin	1
LM-080C	Polyethylene tank	1
LM-080D	Coupler for drying the inside of amniotic sac	1

KOKEN Baby Boy (Newborn baby model for multipurpose practice) with storage bag

## **Outline**

The KOKEN Baby is the optimum baby model for training and guidance involving newborns. It is made of silicone rubber, and has a seamless construction, giving it a feel extremely close to that of a real baby. It can be used to practice bathing, fullbody monitoring and measurement, changing diapers, suction, umbilical care, rectal temperature measurement, and simple physical exercises for infants.



# Features

- The KOKEN baby is made of special silicone rubber with the appearance and texture of real skin. It gives the trainee the sense of handling a real baby and is perfectly suited for learning infant handling.
- A realistic structure has been reproduced that allows you to observe the new-born baby.
- The seamless skin is absolutely waterproof.
- The model has an anterior fontanel, a posterior fontanel, sagittal sutures, and coronal sutures.
- The head is not fixed.
- Flexible ears.
- There is a space measuring 5 cm from the nasal cavity to the throat, and a space measuring 15 cm from the oral cavity to the stomach.
- The shape of the mouth has been altered to enable the baby to suck nipples.
- The model has a clavicle and sternum, making it possible to check for clavicle fractures.
- The backbone can be located.
- The arms and legs can be freely fixed and extended.
- The umbilical cord is detachable.
- The anal canal is 5 cm deep.
- The quality of the silicone skin will not deteriorate with repeated bathing.
- The scrotum includes testicles. (Only for Boy)

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 $KOKEN \ Baby \ Girl \ (Newborn \ baby \ model \ for \ multipurpose \ practice) \\ with \ storage \ bag$ 

# Outline

The KOKEN Baby is the optimum baby model for training and guidance involving newborns. It is made of silicone rubber, and has a seamless construction, giving it a feel extremely close to that of a real baby. It can be used to practice bathing, fullbody monitoring and measurement, changing diapers, suction, umbilical care, rectal temperature measurement, and simple physical exercises for infants.



## Features

- The KOKEN baby is made of special silicone rubber with the appearance and texture of real skin. It gives the trainee the sense of handling a real baby and is perfectly suited for learning infant handling.
- A realistic structure has been reproduced that allows you to observe the new-born baby.
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- The head is not fixed.
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- There is a space measuring 5 cm from the nasal cavity to the throat, and a space measuring 15 cm from the oral cavity to the stomach.
- The shape of the mouth has been altered to enable the baby to suck nipples.
- The model has a clavicle and sternum, making it possible to check for clavicle fractures.
- The backbone can be located.
- The arms and legs can be freely fixed and extended.
- The umbilical cord is detachable.
- The anal canal is 5 cm deep.
- The quality of the silicone skin will not deteriorate with repeated bathing.
- The baby girl model is provided with breastfeeding and urination functions. (Only for Girl)
- The mouth shape makes it possible for the mouth to close around the nipple on the Breast Massage Model Type III, LM-045, so that breastfeeding guidance can be provided. (Only for Girl)

#### LM-082

# KOKEN "Western Features" Baby

(Newborn baby model for multipurpose practice) with storage bag

# Outline

The KOKEN Baby is the optimum baby model for training and guidance involving newborns. It is made of silicone rubber, and has a seamless construction, giving it a feel extremely close to that of a real baby. It can be used to practice bathing, fullbody monitoring and measurement, changing diapers, suction, umbilical care, rectal temperature measurement, and simple physical exercises for infants.





#### **Features**

- The KOKEN baby is made of special silicone rubber with the appearance and texture of real skin. It gives the trainee the sense of handling a real baby and is perfectly suited for learning infant handling.
- A realistic structure has been reproduced that allows you to observe the new-born baby.
- The seamless skin is absolutely waterproof.
- The model has an anterior fontanel, a posterior fontanel, sagittal sutures, and coronal sutures.
- The head is not fixed.
- Flexible ears.
- There is a space measuring 5 cm from the nasal cavity to the throat, and a space measuring 15 cm from the oral cavity to the stomach.
- The shape of the mouth has been altered to enable the baby to suck nipples.
- The model has a clavicle and sternum, making it possible to check for clavicle fractures.
- The backbone can be located.
- The arms and legs can be freely fixed and extended.
- The umbilical cord is detachable.
- The anal canal is 5 cm deep.
- The quality of the silicone skin will not deteriorate with repeated bathing.
- The scrotum includes testicles.









Umbilical cord care



Diapering techniques



- 1. Breastfeeding (Baby Girl only)
- 2. Urination and handling of the urine collection pack (Baby Girl only)
- 3. Bathing (securing of the neck, auricles of the ears, and the arms and legs)
- 4. Full-body monitoring and measurement
- 5. Simple physical exercises for infants
- 6. Diapering techniques
- 7. Insertion of a rectal thermometer
- 8. Administration of enemas
- 9. Umbilical cord care and monitoring and care of the umbilicus after the umbilical cord has been detached
- 10.Insertion of a suction tube



Nose suction



Insertion of a rectal thermometer



Sanitary care

#### Specifications

Height	Approx. 48 cm
Head circumference	Approx. 34 cm
Weight	Approx. 3000 g

#### Components

Main body	1
Umbilical cord	1
Storage bag	1

# **Neonatal Vital Signs Simulator II**

with storage bag

# **Outline**

With this simulator, infant vital signs can be measured and the entire body can be monitored. A crying-sound function reproduces the clinical setting more realistically, while heart and breathing sounds can be checked, creating hands-on training of measurement and monitoring close to those of the actual clinical environment.



# Features

#### **Control box**

#### Heart and respiratory rates

• The heart rate and respiratory rate are displayed digitally over a normal range, and the infants status can easily be set by turning a rotary dial.

#### Heart sounds and breathing sounds

- An external speaker provided on the control box make these sounds audible to persons in the nearby environment.
- The sounds can be set independently, so the balance can be adjusted to match the status settings.
- Highly realistic sounds are produced with clear sound quality. Crying-sound function
- Four different crying patterns can be reproduced.
- Four buttons are provided to enable direct operation.

#### **Neonatal simulator**

#### Full-body monitoring

- Silicone rubber is used to produce an extremely realistic texture.
- Monitoring of the head area (palpation of skull molding) includes locating the anterior fontanel, posterior fontanel, sagittal suture, and coronal suture.
- A rectal thermometer can be inserted.

#### Auscultation

• Vital sign measurement includes auscultation of heart and breathing sounds.

#### Visual inspection

• Thoracoabdominal breathing synchronized to the set respiration rate can be observed visually.

#### Crying-sound function

• The sound of crying can be heard coming from the mouth.

Neonatal Simulator (with connecting cord)	1
Control box	1
AC adaptor (with DC cord)	1
AC cord	1
Storage bag	1

Components

#### Specifications

Neonatal model		
Height	Approx.48cm	
Head circumference	Approx.34cm	
Weight	Approx.2700g	

Control box	
Dimensions	Approx.16 (L) $\times$ 22 (W) $\times$ 11 (H) cm
Weight	Approx.1kg
Power supply	100 V-240 V AC

# **KOKEN Pronatis Model**

# **Outline**

Appearance and touch are extremely realistic because of the use of a special silicone material. This model can be used in an incubator and enable to experience images of pronatis.



(Approx.30weeks)

# Practical Training (Main Practice)

#### А Туре

- Overall observation and measurement
- Palpation of anterior fontanel
- Wiping and bathing in the incubator
- Suction
- Tubule nutrition
- Monitor setup

#### Specifications



# A TypeAgeApprox. 30 weeksHeightApprox. 36 cmHead circumferenceApprox. 30 cmWeightApprox. 1600 gSexMale

#### Seamless skin

#### В Туре

- Overall observation and measurement
- Palpation of anterior fontanel
- Cleanse
- Suction
- Tubule nutrition
- Monitor setup

# B Type Age Approx. 24 weeks Height Approx. 32 cm Head circumference Approx. 24 cm

Head circumterence	Approx. 24 cm
Weight	Approx. 700 g
Sex	Male

The head can be rotated and positioned for the baby to lie on its side

#### LM-052

# **Infant Model for Nursing Practice**

# **Outline**

This is a model of an average infant female model of approximately 6 - 9months (Approx. 8,000 g), to be used for various kinds of practice in infant nursing.



#### Features

The skin is made of a unique silicone rubber that closely resembles that of real skin and creates a seamless structure over the whole body, and is waterproof. Techniques for handling an actual human infant can be taught using this model.

# Practical Training

#### Holding

- Changing clothes and diapers
- Exercise of baby, shifting the sleeping position
- Feeding baby food
- Breastfeeding, patting the back to burp a baby
- Bathing and washing the hair
- Measuring (height, weight, circumference of the head, size and position of the fonticulus anterior, etc.)
- Overall observation of the body (appearance, confirmation of position): Visual observation (intra-oral examination), auscultation, tapping examination and palpation
- Rectal temperature (apparent), Measuring blood pressure (supporting the arms in front and medical examination)
- Insertion of a feeding catheter
- Suction of the nasal and oral cavities
- Securing the body position for blood collection, spinal or lumbar puncture

# Examples of Training



Holding



Washing the baby's hair

Giving the baby exercise



Washing the baby's bottoms



Breastfeeding (\*Actual feeding cannot be practiced)



Securing the baby's position for blood collection or spinal or lumbar puncture

#### Components

<b>!</b>	
Main body	1
Baby underwear	1

#### Specifications

Height	Approx.66 cm
Head circumference	Approx.44 cm
Weight	Approx.8.0 kg
Material	Silicone rubber

exercis

# 4-Month-Old Baby, Sho-Chan

#### Outline

Sho-chan is a 4-month-old model whose perceived body weight is 6 kg. Students can use it to practice holding babies in their arms and carrying them in a sling; they can also practice various activities with the model placed in a stroller or baby chair. This model is optimally suited to creating the impression of an infant about 4 or 5 months old.



Place it in a baby chair to practice feeding baby food



The actual model cannot sit unless supported.

#### Features

- Sho-chan has a realistic body shape closely resembling that of a real baby.
- Although the doll weighs approximately 4 kg, it is designed to allow the user to perceive it as weighing 6 kg, the average weight of a 4-month-old baby. It feels soft to the touch, and is highly cuddly.
- The model can be made to sit in a chair, helping expand the range of practice activities such as assisting in feeding baby food, making it sit in a baby stroller, etc.
- The model is able to hold up its head. However, it is designed such that the center of gravity is at the head, just like a real 4-month-old baby.
- Sho-chan has the face of a typical Japanese baby: familiar and cute.
- The price is kept low, thanks to the use of new materials.

# Precautions for Use

- The model is not suitable for measuring, etc. It cannot be bathed, either.
- Unlike Koken Baby, our model of a newborn infant, Sho-chan is made of vinyl chloride resin. (Material: Vinyl chloride resin)
- Please note that the specifications are subject to change.
- The product does not come with accessories such as a stroller, baby chair, etc.

#### Specifications

Height	Approx. 58 cm
Head circumference	Approx. 40 cm
Weights	Approx. 4 kg

#### LM-055

# Puerperal Uterus Palpation Training Model

with storage bag for uterus models and storage cover



## Features

- This model is ideal for palpation training. Special materials are used for the abdominal surface to make the identification of fundus uteri very realistic.
- Vulva is washable and the examination of the large pudendal lips and proctoptosia can be practiced.
- Change of underwear, sheet, belt and gauze can be practiced with realistic sensations and ambience.
- By using one of four uterus models that represent four different reversions, the difference between conditions can be accurately identified by palpation.

# Method for Setting a Uterus Recession Model

- Apply enough powder to the abdominal cavity of the uterus recession model.
- Set the model in the position shown in the figure. Make sure that the model is not dislocated as the direction is fixed.

# Practical Training

- The examination of puerperal uterus and the identification of normal or abnormal conditions. (Normal or abnormal on the first day)
- Measurement and palpation of puerperal fundus uteri. (Change
- throughout a week: first, third and fifth day)
- Cleaning and care of vulva.
- Instruction in massage.

#### Components

•	
Main body	1
Uterus recession model on the first day (Normal)	1
Uterus recession model on the first day (Abnormal)	1
Uterus recession model on the third day (Normal)	1
Uterus recession model on the fifth day (Normal)	1
Sponge for prevention of deformation	1
Baby powder	1
Storage bag for uterus models	1
Storage cover	1

#### Specifications

Main	body
------	------

,	
Dimensions	Approx. 44 (L) $\times$ 48 (W) $\times$ 27 (H) cm
Weight	Approx. 4.4 kg



Spine

# Female Organ Model Type I

with storage bag

## **Outline**

This model is used to practice the insertion of female contraceptive devices such as pessaries, as well as the application of contraceptive agents.



## Features

- This model is used to practice the insertion of female contraceptive devices, such as pessaries, as well as the application of contraceptive agents.
- This model is made of a special silicone rubber. Like a living human, the skin and vagina are very soft to the touch. The inside surface is also extremely realistic for manual examination practice.
- This model can be separated into right and left parts to show the internal structure of organs such as the vagina, uterus, and bladder as well as skeletal structure. It is ideal for use in education and patient guidance.
- The uterus can also be separated into two parts. This is extremely useful for teaching the insertion and positioning of contraceptive devices such as rings and IUD.
- The genitalia are realistically shaped and soft to the touch. The labia minora are closed and the ostium vaginae is concealed, just like the normal state of the human body.

# Name of Each Part

#### 1) Bladder

- 2 Pubis
- ③ Labium majus
- ④ Labium minus
- 5 Vagina
- 6 Rectum7 Coccyx
- 8 Uterus
- 9 Stopper
- 10 Outer case



#### Specifications

Main body	Approx.22(L) $\times$ 14(W) $\times$ 23(H)cm	Approx.1.4kg
Storage case	Approx.23(L) $ imes$ 16(W) $ imes$ 25(H)cm	Approx.0.3kg

#### Components

Main body	1
Outer case	1
Storage bag	1

# Maternity Simulation Jacket

# Maternity Simulation Jacket II

with storage bag

## Outline

This simulation jacket is ideal for experiencing the life and activities of a pregnant woman, and learning how to assist her. It will cater especially to the educational needs of midwifery, public health nursing, nursing and also for expectant parents.



#### **Features**

- The jacket is designed to fit an average woman of 155-165 cm in height, but will also fit an average man of up to 185 cm in height.
- Quilted material is used for the jacket to allow close contact with the body.
- Adjustable straps allow the jacket to be worn by people of a variety of different sizes.
- A high safety standard is assured thanks to a urethane gel filling and weight adjustment bags containing iron particles.
- The weights can be adjusted and fixed with hook-and-loop fasteners to enable simulation from second to third trimester pregnancy.
- Abdominal fetus parts and amniotic fluids are made from urethane gel and give a sensation very close to that of a real human body. (Only for LM-054)

#### Q&A

Q:What is the difference between the maternity simulation jacket and the maternity simulation jacket II?

A:They are different in material quality for jacket and material kind for abdominal fetus parts.

# Storage Instructions

Store in the bag with the abdominal side on top. If this side is on the bottom, the abdomen may become deformed due to the lead weights.



Maternity clothing is not attached.

## How to Wear



 Mear the corset without fail to prevent lumbago.



2 Set the abdomen of the maternity simulation jacket to the abdomen of the wearer.



3 Adjust the abdominal position by using the shoulder belts.



<u>4</u> Fix temporarily. Always start from the shoulders and proceed to the chest, abdomen and hip belts.



5 Tighten the belts of the maternity simulation jacket so that the jacket fits snugly to the body. (If the jacket does not fit snugly, it can cause lumbago and it will be difficult to accurately experience the feeling of pregnancy.)



# Name of Each Part



Gel: Approx.3.5 kg, Iron grain bag: Approx.1 kg × 3 pieces, Jacket: Approx.0.7 kg



Abdominal weight: Approx.3.5 kg, Internal grain: Approx.1 kg × 3 pieces, Jacket: Approx.0.7 kg

# Breast Massage Model Type II

with storage case

# **Outline**

Various practices such as massaging the base of the breasts, papilla mammae and areola mammae, and the treatment of lactation can be performed. The model is made of a soft and flexible silicone material, which simulates tight breasts and the movement of the base of the breasts to be clearly felt.



## Features

- The skin is extremely soft and flexible as it is made from a special silicone material.
- The model represents the tight breast of a puerperal woman and includes the movement of the base of the breasts.
- Various training such as the massaging of the base of the breasts, papilla mammae and areola mammae , and the treatment of lactation can be performed.
- Loosening of the contact space between the fascia of the pectoral muscle and the base of the breasts can be palpated by the fingers.

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#### Baby powder

Storage case

Components Main body

#### Specifications

Main body	Approx.29(L) $\times$ 42(W) $\times$ 13(H)cm	Approx.2kg
Storage case	Approx.36(L) $\times$ 48(W) $\times$ 18(H)cm	Approx.3.4kg

1

1

1

# Breast Massage Model Type III

with storage case

# Outline

This model is suitable for self-instruction as it can be hung from the neck. Various practices such as massaging the base of the breasts, papilla mammae, areola mammae and the treatment of lactation can be performed.



## Features

- The model is realistic in both appearance and texture as it is made of a special silicone material.
- This model represents the tight breast of a puerperal woman, and includes the movement of the base of the breast and is ideal for breast massage training.
- This model is suitable for self-instruction as it can be hung from the neck.
- Various training such as massaging the base of the breasts, papilla mammae and areola mammae, and the treatment of lactation can be performed.
- Loosening of the contact space between the fascia of the pectoral muscle and the base of the breasts can be palpated with the fingers.

#### Components

Main body	1
Baby powder	1
Storage case	1

#### Specifications

Main body	Approx.26(L) $\times$ 33(W) $\times$ 14(H)cm	Approx.1.1kg
Storage case	Approx.32(L) $\times$ 37(W) $\times$ 17(H)cm	Approx.1.8kg



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# **Gluteal Intramuscular Injection Model**

with storage case

# **Outline**

The injection sites in this model are in the upper outer quadrants of the buttocks. The model is designed to simulate the actual sensation of the human skeletal structure required to determine the correct injection sites.



## Features

- Inserting the injection needle into an area other than the correct injection site causes the alarm to sound.
- Users can practice a range of injection procedures, including needle puncture and infusion of simulated injection fluid (water). The injection fluid is discharged from the model via the drainage tube.
- The model closely simulates the human body so that users can practice locating and maintaining the correct injection site and performing injections at various angles under realistic conditions.
- The injection site components and epidermis are easy to replace.

# Name of Each Part

- Front panel
   Switch panel
   Battery box
   Drainage connector (Left)
   Drainage tube (Left)
   Drainage tube (Right)
   Alarm speaker
   Injection site (Left)
   Injection site (Right)
   Alarm sensor site (Left)
- 12 Alarm sensor site (Right)
- (13) Epidermis



# Injection Site

- The correct injection site is located near the center of the upper right quadrant and 1/3 the distance from the iliac crest.
- The correct injection sphere is 5 cm in diameter, which is the approximitation of the subcutaneous panniculus adiposus and the panniculus.
- The iliac crest, iliac spine, anterior superior iliac spine, anterior inferior iliac spine, trochanter major and pubic bone can be palpated.



#### Specifications

Main body	Approx.36(L) $ imes$ 32(W) $ imes$ 20(H)cm	Approx.3.6kg
Storage case	Approx.39(L) $ imes$ 42(W) $ imes$ 32(H)cm	Approx.4kg

#### Components

Main body	1
AA size batteries	4
Spare injection sites (left and right)	1 each
Drainage tubes (left and right)	1 each
Storage case	1

Spares			
LM-0271	Injection sites (left and right)	1 each	
LM-0272	Skin	1	

# Gluteal Intramuscular Injection Model $\, {\rm I\hspace{-0.5mm}I}$

with storage case

## **Outline**

The model's injection sites correspond to the measurement methods of von Hochstetter and Clark, and it is designed to simulate the actual sensation of the human skeletal structure required to determine the correct injection site.



# Features

- Inserting the injection needle into an area other than the correct injection site causes thealarm to sound.
- Users can practice a range of injection procedures, including needle puncture and infusion of simulated injection fluid (water).
- The model closely simulates the human body so that users can practice locating and maintaining the correct injection site and performing injections at various angles under realistic conditions.
- The model features a stand so that injections with the patient in a lateral recumbent position can also be practiced.
- The injection site components and epidermis are easy to replace.


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# Injection Site

To locate von Hochstetter's injection site, place the center of the left palm on the greater trochanter and the tip of the index finger on the anterosuperior iliac spine. Spread the index and middle fingers as widely as possible. The central point between the index and middle fingers and the iliac crest isvon Hochstetter's site (Point A).



Specifications

(5)

Main body	Approx.19(L) $\times$ 37(W) $\times$ 29(H)cm	Approx.4kg
Storage case	Approx.39(L) $\times$ 42(W) $\times$ 32(H)cm	Approx.3.6kg

Components	
Main body	1
AA size batteries	4
Spare injection sites (left and right)	1 each
Drainage tubes (left and right)	1 each
Storage case	1
Stand	1

Spares			
LM-0571	Injection sites (left and right)	1 each	
LM-0572	Skin	1	

# Multipurpose Injection Training Arm

with storage bag

# **Outline**

Three different injection techniques—intramuscular injection, hypodermic injection, and IV injection—can be practiced with a single model. Moreover, IV injection can be practiced in the median antebrachial vein and opisthenar vein, allowing a total of four different injection techniques to be practiced.



- Silicone is used in the skin and other main parts, and so the look, feel, and puncture sensation are similar to those with a real human body, resulting in more realistic practice.
- Since four different techniques can be practiced with a single model, it is no longer necessary to use several models as in the past and setup and cleanup/re-storage times are reduced.
- With a movable shoulder, elbow, and wrist, a realistic body position for each technique can be reproduced.
- The skin (silicone) can withstand many punctures without leaving visible needle holes, and so can be used for a large number of practices.
- Blood can be removed with a vacuum blood collection tube or syringe.
   \*Recommend using a needle smaller than 21G.

#### Components

① Main body	1
② Arm skins	3parts
③ Irrigator	2
④ Pinch cock	2
5 Simulated blood (500ml)	1
6 Elbow rest	1

⑦ Syringe 50 ml	1
⑧ Drainage tube 1ml	1
(9) Stand	1
10 Storage bag	1
1) Baby powder	1



# Practical Training

#### Hypodermic injection

- The injection site can be ascertained.
- The injection site can be confirmed with realistic frame work (bone).
- The sensation provided when injecting via a needle is similar to that provided by real human skin.
- A series of techniques such as hypodermic needle injections of medicine can be practiced.
- Injected liquid can be discharged through a drainage tube.

#### **Intramuscular Injection**

- The injection site can be confirmed with realistic frame work (bone).
- The sensation provided when injecting via a needle is similar to that provided by real human skin.
- A series of techniques such as hypodermic needle injections of medicine can be practiced.
- Injected liquid can be discharged through a drainage tube.

#### IV (Intravenous) Injection

- Vein can be confirmed visually from the surface of skin.
- Blood vessel tube is covered with silicone gel and this makes it feel more like real human skin.
- Above does not apply to opisthenar injection.
- With special coating on the silicone skin, surgical tape can be attached to the skin.
- A series of techniques such as hypodermic needle injections of medicine can be practiced.
- Injection site and skin can be replaced easily.
- Simulated blood has color and viscosity similar to that of real blood.
- Simulated blood can be easily washed off with water.
- Simulated blood circulation is easily performed by manual operation.



#### Caution

Only the gel bag section should be used as a puncture site for IV injection. Do not puncture any other areas.









Spares		
① LM-0741	Arm skin (upper arm)	1
2 LM-0745	Intramuscular injection gel bag	1
③ LM-0746	Intramuscular injection sponge	1
④ LM-0747	Hypodermic injection site	1
⑤ LM-0748	Hypodermic injection sponge	1
⑥ LM-07411	Acromial part	1
⑦ LM-0742	Arm skin (forearm)	1
⑧ LM-0743	Arm skin (hand)	1
(9) LM-0744	IV injection site	1
10 LM-07413	IV Opisthenar blood vessel tube	10
1) LM-028D	Simulated blood (500ml)	1

#### Specifications

Arm	Approx.63(L) $\times$ 10(W) $\times$ 11(H)cm	Approx.3kg
Stand	Approx.60(L) $\times$ 27(W) $\times$ 68(H)cm	Approx.2kg



# Injection and Blood Sampling Practice Model Type I

with storage case

# Outline

A series of techniques such as confirmation of injection site, insertion hypodermic needle and injection of medicine are possible with this model. The pressurized blood vessel can be palpated, and needle insertion provides a feeling similar to that offered by a real human arm. Blood vessel tube is durable enough to be used in numerous practice injections.



Needle injection has same feel as with a human arm.



Replaceable outer skin and blood vessel tube.

# **Features**

- Made of a special silicone rubber, this lifelike model limb features synthetic skin that is remarkably similar to human skin.
- The sensation of injecting a hypodermic needle into this model's simulated skin and blood vessels is identical to that encountered when performing an injection on an actual patient. Practice of both medicine injection and blood sampling using this model provides trainees with a remarkably realistic experience.
- Resilient synthetic skin conceals injection marks well, even after numerous practice injections. Injection points are highly resistant to tears and other damage.
- The artificial blood features the same viscosity and color as those of actual human blood. Since it is entirely water soluble, spills are cleaned easily without the worry of staining.
- The model's lifelike circulation operates through a simple manual process. This rugged, serviceable model incorporates extremely reliable mechanisms for trouble-free service over the long term.
- This simply designed model enables easy exchange of both the synthetic skin and veins.





#### Specifications

Arm	Approx.59(L) $ imes$ 9(W) $ imes$ 9(H)cm	Approx.2kg
Stand	Approx.60(L) $ imes$ 16(W) $ imes$ 67(H)cm	Approx.1.5kg
Storage case	Approx.67(L) $\times$ 30(W) $\times$ 21(H)cm	Approx.4kg

#### Components

· · · · · · · · · · · · · · · · · · ·	
Arm skin	1
Simulated blood (500ml)	1
Arm musculature	1
Elbow rest	1
Blood vessel tube	6
Pinch cock	2
Table and stand	1
Tube connector	2
Irrigator	2
Storage case	1

#### Spares

Spares		
LM-028B	Arm skin	1
LM-028C	Blood vessel tube	10
LM-028D	Simulated blood (500ml)	1
LM-028S-T	Arm Skin (Thick type)	1

Nursing Health Education Models

# Male Catheter Model Type I

with storage case

# Outline

A series of techniques such as balloon catheter insertion, fixation and removal can be practiced. The presence of a balloon in the bladder can be observed.





# Features

- This life-size model is designed for training in catheter insertion on adult males.
- Made of a special silicone rubber, the skin is extremely soft and realistic.
- As with a real male, balloon catheter insertion encounters resistance. All practices, from catheter insertion to removal can be performed with this model.
- The model moves exactly like a real human penis, so practice holding the penis stationary may be performed.
- The side and back of the model, urethra, and bladder are all transparent, enhancing instruction by enabling full visibility of catheter insertion and the presence of the balloon inside the bladder.
- The urethral canal is formed in such a realistic manner that if the penis is not raised to the proper position, insertion becomes more difficult.

# **Name of Each Part**

- Leg
   Penis
   Abdomen
   Urethral exit
   Scrotum
   Acrylic stand
- ⑦ Urethral tube
- 8 Prostate
- 9 Bladder
- 10 Balloon catheter



#### Specifications

Main body	Approx.23(L) $ imes$ 19(W) $ imes$ 17(H)cm	Approx.1.2kg
Storage case	Approx.26(L) $\times$ 25(W) $\times$ 25(H)cm	Approx.1.5kg

#### Components

Main body	1
Catheter	1
Storage case	1



# **Urethral Catheterization Model**

with storage bag

# Outline

The vulva and the urethral openings are anatomically correct. Urethral catheterization can be practiced with very realistic sensations.



# **Features**

- The genitalia and urethra simulate anatomical structure precisely so that female catheterization practice is experienced as it would be with a real patient.
- The turgescence of the bladder can be recognized by palpation, and the trainee can practice this assessment.
- When a catheter is inserted through the urethra, and enters the bladder, artificial urine (water) will flow from the catheter as it would with a real patient.
- The residual urine will be confirmed by pressing on the bladder.
- 500 cc volume bladder provided.
- A self-retaining catheter is applied and positioned.

# Composition and Component Name

#### (1) When the components have been set up





1) Vulva ④ Tube 2 Bladder (5) Clamp ③ Irrigator Main body





1) Bladder

2 Tube connector

③ Urethral opening valve (A)

④ Urethral opening valve (B) (5) Hose clamp

Height Weight

Specifications

Length

Width

Bladder capacity Approx. 500 ml Components Main body

Approx. 24cm

Approx. 38cm

Approx. 20cm

Approx. 1.5kg

Self-retaining indwelling catheter	1
Storage bag	1

\*please use the attached catheter.

# Female Catheterization and Rectal Injection Model Type II

with storage case

# Outline

A series of techniques for catheterization and rectal injection can be practiced by wearing or putting on a partial manikin. When a catheter is inserted into the urethra, urine (water) is extracted.



# Features

- A realistic model made of silicone using KOKEN's special technology, enabling simulation of adult female catheterization and rectal injection.
- Can easily be worn by a trainee or be placed on a manikin for practice.
- The shape is very lifelike so that observation and cleaning can be performed under realistic conditions.
- Very lifelike sensations can be obtained when a catheter is inserted into the urethra and urine (water) is extracted.
- Glycerin and high pressure rectal injection can be performed when a catheter is inserted into the anus.

## Optional Male Genital Organ LM-025A



It is possible to practice male rectal injection simulation. By attaching the male genital organ, urination can be practiced. This attachment provides no urethral catheterization capability.

#### Spares

1) LM-025W	Irrigator	1
2) LM-025T	Tube connector	1
3) LM-025G	Drainage tube set	1
④ LM-025S	Sponge	1
5) LM-025E	Elastic cord	1
6) LM-0686	Glycerin enemator	5

#### Specifications

Main body	Approx.22(L) $\times$ 10(W) $\times$ 15(H)cm	Approx.340g
Storage case	Approx.26(L) $\times$ 22(W) $\times$ 13(H)cm	Approx.865g

#### Components

•	
Main body	1
Nelaton catheter No.7	1
Glycerin enemator	1
Water bag	1
Drainage tube set	1
Tube connector	1
Storage case	1

#### \*please use the attached catheter.



## LM-018



## Features

The size and texture of the model is made to be as realistic as possible. Pathological symptoms such as lumps and skin changes may be slightly exaggerated in the model, but the conditions and feel of the lesions are created with the utmost accuracy. This model offers an ideal educational tool for medical students, nursing students and health nurses.

The model can be effectively used as a teaching tool for self-examination of breast cancer by the general public through mass screening and for training in detection of breast cancer (intermittent breast cancer) outside the doctor's office.

# Symptoms of Breast Cancer



Symptom	Number	Description	
	1		
Lumps	2	Hard lumps. Cancer is suspected due to the irregular surface.	
	3	Soft lump. Cancer is suspected after palpation	
Lymph (4)		Lymph nodes in the axillary region (armpits)	
metastasis	5	Hard lymph node in the neck	
Nipple changes	6	Displacement or depression of the nipple	
	7	Eczematous change (sore) [Paget's cancer]	
Skin changes	8	Skin dimpling	
	9	Partial edema of the skin, "orange-peel" appearance	
	10	Skin redness and swelling (inflammatory breast cancer)	

#### Components

Inspection and Palpation of Breast CancerTraining Model main body	1
Baby powder	1
Storage case	1

#### Specifications

Main body	Approx.18(L) $\times$ 35(W) $\times$ 43(H)cm	Approx.3.7kg
Storage Case	Approx.22(L) $\times$ 42(W) $\times$ 47(H)cm	Approx.3.5kg

## LM-017

Inspection and Palpation of Breast Cancer Training Model  ${\rm I\hspace{-0.5mm}I}$  with storage case



# Features

The size and texture of the model is made to be as realistic as possible. Pathological symptoms such as lumps and skin changes (dimples) may be slightly exaggerated in the model, but the locations and feel of the lesions are provided with the utmost accuracy. This not only offers an ideal educational model for health nurses and nursing students, but also provides an effective teaching and training tool for self-examination of breast cancer by the general public.

# Symptoms of Breast Cancer

Symptom	Number	Description
Lumps	1) to (5)	80-90% of breast cancers start as a painless lump.
Skin changes (dimple)	5	If the cancer approaches the skin, the skin may become depressed to form a dimple.

For professional use in medical or nursing schools, we have a precise model (LM-018) equipped with skin, nipple, lymphonodi metastasis, etc.





#### Components

•	
Inspection and Palpation of Breast Cancer Training Model II main body	1
Baby powder	1
Storage case	1

#### Specifications

Main body	Approx.22(L) $\times$ 30(W) $\times$ 11(H)cm	Approx.1.2kg
Storage Case	Approx.27(L) × 34(W) ×13(H)cm	Approx.1.2kg

## LM-097B

Suction Training Model II (LM-097) + Tube Feeding Components (LM-097C) Suction • Tube Feeding Simulator with storage bag







Tube suction (suction inside tracheostomy cannula)

# Outline

This model can be used to practice the insertion of suction catheters into the nasal cavity, oral cavity and tracheostomy site, as well suction procedures, nasogastric tube feeding, and gastrostomy care procedures, routinely applied in the nursing and caregiving fields.

# **Features**

#### **Suction**

- Silicone rubber is used for the model, so that students can practice with an exterior and feel that are very close to those of a living human body.
- Insertion of suction catheters into the nasal cavity, oral cavity and suctioning practice can be performed.
- The facial region can be divided into two halves along the midline, allowing confirmation of the actual insertion status of a suction catheter or nasogastric tube. The model is also designed to enable study of the anatomical structures of the nasal cavity, oral cavity and cervical area.
- The simulated sputum provided as an accessory can be inserted into the nasal cavity, oral cavity or trachea, for training. This allows students to train in the same manner as the actual procedure, and enables more effective suction training. (Viscosity of the simulated sputum can be controlled using water.)

#### Components

#### Suction Training Model Type II

Main body	1
Side of face	1
Bronchus	1
Clasp for bronchus	1
Acrylic board for Side of the face	1
Glycerin	1
Simulated sputum(100g)	1

Tube Feeding Components		
Main body	1	
Back plate	1	
Gastrostomy tank	1	
Tube feeding tank	1	
Insertion support piece	1	
Storage bag	1	

Tracheostomy cannula (Exclusive for Life Simulation Models)

\*Catheter is not attached

please refer to the compatible catheter sizes below and prepare an appropriate catheter

1

#### Compatible catheter sizes

Specifications	
Gastrostomy tube	20 Fr (Shaft length : 3cm)
Feeding tube	8 Fr ~ 16 Fr
Suction catheters	12 Fr ~ 16 Fr

Dimensions	Approx.72(L) $\times$ 31 (W) $\times$ 20(H)cm
Weight	Approx.4kg

#### Tube feeding Gastrostomy care

- The facial region can be divided into two halves along the midline, allowing confirmation of the actual insertion status of a suction catheter or nasogastric tube. The model is also designed to enable study of the anatomical structures of the nasal cavity, oral cavity and cervical area.
- Insertion of the feeding tube all the way to the gastric fundus can be practiced. Air bubble sounds can be heard and suction of gastric fluid can be used to confirm the insertion of the tube.
- Placement and care of gastrostomy tube can be practiced.
- The tube feeding components come with an internal tank, allowing nasogastric tube feeding and gastrostomy management using actual liquids. Techniques can also be practiced using actual nutrient solution, equivalent to routine nursing care settings.
- The tank has a drainage function, so there is no need to worry about overflow when the tank becomes full.
- The model can be taken apart for very easy maintenance. The tanks for liquids are washable, so hygiene is not a worry.



Insertion of the feeding tube all the way to the gastric fundus



Tube feeding (confirming tube insertion)



Gastrostomy tube care

## LM-097C

Optional item for Suction Training Model II Tube Feeding Components with storage bag

> Attaches to Suction Training Model II (LM-097) for tube feeding and gastrostomy care.

# Components

Main body	1
Back plate	1
Gastrostomy tank	1
Tube feeding tank	1
Insertion support piece	1
Storage bag	1

#### Specifications

Dimensions	Approx. 37(L) × 31(W) × 20 (H)cm
Weight	Approx. 2.8 kg

\*Cannot be attached to the previous Suction Training Model (LM-070).

# Suction Training Model Type II

with storage bag

**Improvement No. 1** 

The tracheal bifurcation is

placed in a location that is more anatomically correct.

# Outline

This model can be used to practice the insertion of suction catheters into the nasal cavity, oral cavity and tracheostomy site, as well as suction procedures, routinely applied in the nursing and caregiving fields.

The facial region can be divided into two halves along the midline, allowing confirmation of the actual insertion status of a suction catheter or feeding tube. The model is also designed to enable study of the anatomical structures of the nasal cavity, oral cavity and cervical area.



## Suction

- Silicone rubber is used for the model, so that students can practice with an exterior and feel that are very close to those of a living human body.
- The facial region can be divided into two halves along the midline, allowing confirmation of the actual insertion status of a suction catheter or feeding tube.
- Designed to enable study of the anatomical structures of the nasal cavity, oral cavity and cervical area.
- The simulated sputum provided as an accessory can be inserted into the nasal cavity, oral cavity or trachea, for training. This allows students to train in the same manner as the actual procedure, and enables more effective suction training. (Viscosity of the simulated sputum can be controlled using water.)

#### Components

Main body	1
Side of face	1
Bronchus	1
Clasp for bronchus	1
Acrylic board for Side of the face	1
Glycerin	1
Simulated sputum(100g)	1
Tracheostomy cannula (Exclusive for Life Simulation Models)	1
Storage bag	1
*Catheter is not attached.	

#### Specifications

Dimensions	Approx.40/46(Bronchus is attached)(L) $\times$ 28 (W) $\times$ 20(H)cm
Weight	Approx.1.4kg

#### Spares

LM-0701	Simulated sputum (100g)	5
LM-097D	Bronchus (with 2 caps)	1
LM-0702	Acrylic board for the side of the face	1
LM-097A	Clasp for bronchus	1

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**Improvement No. 2** 

An esophageal segment

was added.

# The Aged Simulation Set with storage bag LM-060 The Aged Simulation Set L size with storage bag LM-102

# **Outline**

The aged simulation set is a teaching material intended to demonstrate the inconveniences felt by the aged due to the musculoskeletal, visual and auditory changes that occur with age. This set is the most suitable for medical care, nursing and welfare training.



#### Components

*Ear plugs (50 pairs)	1
*Gloves (10 pairs)	1
*Goggles	1
Elbow restrictors	1 pair for both elbows
Knee restrictors	1 pair for both knees
Finger restrictors	1 pair for both fingers
Back protector	1
*Wrist weights (500g)	1 pair for both wrists
*Ankle weights (1000g)	1 pair for both ankles
*Walking stick (foldable)	1
Training bib	1
Storage bag	1

L size parts are not sold seperately. \*The walking stick, gloves, goggles, ear plugs, wrist weights, ankle weights, storage bag, and instruction manual are the same in the aged simulation set and L-size aged simulation set. The Aged Simulation Set LM-060



 Specifications

 Total weight
 Approx.6.4 kg

Suitable for: Standard individuals approx. 155-170 cm in height

The Aged Simulation SetL size LM-102



Suitable for: Taller individuals approx. 170-185 cm in height

# Features

• Adjusting the extensively placed hook-and-loop fasteners straps can enable the set to be worn by trainees of various physiques.

- It is hard for the trainee to move the joints when wearing knee and elbow restrictors. The trainee can also experience reduced muscle power with wrist and ankle weights attached, and a reduced sense of touch by wearing the gloves.
- A stooped posture can be experienced by wearing the back protector.
- Loss of peripheral vision and changes in visual function due to cataracts can be experienced by wearing the goggles.
- Earplugs are specially created to block out the high-frequency sound range. Wearing these simulates presbycusis, which makes it difficult to hear high-frequency sounds.

Nursing<sup>•</sup> Health Education Models

#### Goggles (1 pc)

These goggles allow the trainee to experience changes in visual function, such as loss of peripheral vision and deteriorated sight due to cataracts. Material: vinyl chloride

#### Finger restrictors

(1 pair for both hands) These restrictors limit the movement of the finger joints, making the trainee more clumsy. Material: 100% cotton and ABS

#### Gloves (10 pairs)

These gloves decrease the trainee's sense of touch in the hands and fingers. Material: 100% cotton

#### Walking stick (foldable) (1 pc)

This stick is intended to allow the trainee to experience how physically disabled people support themselves with walking sticks. Material: aluminum

#### Ankle weights: 1000 g (1 pair for both ankles)

These weights are loaded on the ankles to allow the trainee to experience simulated loss of muscle. Material: iron particles

# Devices

#### Earplugs (50 pairs)

These earplugs block high-frequency sounds, allowing the trainee to experience presbyacusis. Material: expanded polymer

#### Back protector (1 pc)

This protector restricts the posture, forcing the trainee to adopt a bent position specific to aging. Material: 100% cotton and aluminum

"I am experiencing the effects of aging" Please write above sentence in your language below with large letter.

#### Elbow restrictors (1 pair for both elbows)

These restrictors limit the motion of the elbow joints to allow the trainee to experience difficulty with arm movements. Material: 100% cotton and ABS

#### Wrist weights: 500 g

(1 pair for both wrists) These weights are loaded on the wrists to allow the trainee to experience a simulated loss of arm muscle. Material: iron particles

#### Knee restrictors (1 pair for both knees)

These restrictors limit the motion of the knees to allow the trainee to experience difficulty with leg movements. Material: 100% cotton and ABS



Difficulty in standing up and sitting in a chair, and in using the bathroom

#### Spares

LM-0601	Ear plugs (50 pairs)	1
LM-0602	Gloves (10 pairs)	1
LM-0603	Goggles	1
LM-0604	Restrictor for elbows	1 pair for both elbows
LM-0605	Restrictor for knees	1 pair for both knees
LM-0606	Restrictor for fingers	1 pair for both fingers
LM-0607	Back protector	1
LM-0608	Wrist weight (500g)	1 pair for both wrists
LM-0609	Ankle weight (1000g)	1 pair for both ankles
LM-06010	Walking stick (foldable)	1
LM-06011	Training bib	1
LM-06012	Storage bag	1

%The spares for Lsize(LM-102) is not sold separately.

#### Difficulty in going up and down the stairs

## Easy exchange Restrictors for Elbows and Knees

"ABS plate" is exchangeable, and the hook and loop fasteners method enables everyone to exchange plates easily.



# Feces Removal and Glycerin Enema Training Model

with storage bag

# **Outline**

- Feces removal and glycerin enema in the field of nursing and welfare education can be practiced with the same feeling as with a human body.
  The trainer can provide exact instructions while observing trainee's technique.

#### Components

Main body	1
Enemator	1
Drainage tube	1
Intestine cap	1
Sheet (with base)	1
Simulated feces set (soft 150g, hard 2 pcs)	1 set
Storage bag	1



Dimensions	Approx. 33 (L) $ imes$ 55 (W) $ imes$ 35 (H) cm
Weight	Approx. 2.8 kg

#### Spares

LM-068A Simulated feces set soft 150g, hard 2 pcs





# Feces Removal

This model simulates bedridden patients or the aged who are having difficulty eliminating waste by themselves, and removal of simulated feces in the rectum can be practiced by digital insertion. The trainee inserts the attached simulated feces into the intestines and removes it from the anus with proper technique.

# - AD

# Glycerin Enema

A Glycerin Enema can be practiced simulating bedridden or the aged patients who are unable to evacuate the bowels by themselves. Glycerin fluid can be injected. (It is let out from a drainage tube at the side of abdomen.) By opening the abdominal cover, the position of the enemator's end can be confirmed through transparent intestines and this makes possible safe glycerin enema training and guidance.



# **Decubitus Treatment Model**

with a fitting holder belt

# **Outline**

Reproduce the decubitus features formed on the sacral region. The set consists of 6 different skins representing from the stage I to IV of decubitus.

The model can be used by fitting either on human or training manikin.



## Features

- Understand the classifications of Stage I to IV with 6 skins.
- Very realistic unprecedented decubitus with silicone material.
- The advance of decubitus can be realized at a glance by removing one pc each of piled up skins.
- Ointment can be practically applied and the maneuver of treatment can be performed.





Stage Classfication	No. of Skin	Description		
Stage I	1	Circumscribed skin flare		
		No changes to pale skin by pressure	Specific	catio
		No injury on epidermis	Dimoneic	200
Stage II	2,3	Partial defect of skin including epidermis and dermis	Dimensions	
		Blister and erosion are observed	Weight	
Stage II	4,5	Defect reach to subcutaneous tissue		
		Sometimes pocket is formed	Materials	Hol
Stage IV	6	Deep defect down to the muscle, bone and support tissue Pocket is formed, and sometimes surgery is required for the treatment		Skir

Specifications				
Dimensions		Approx.18 (L) × 22 (W) × 5 (H) cm		
Weight		Approx. 1.4kg		
Materials	Holder	Urethane foam		
	Skin	Silicone		

# **Thoracic Trauma Trainer**

with storage bag

# **Outline**

High-energy trauma often consists of multiple injuries, and thoracic trauma can be considered key when determining priority in treatment. This thoracic trauma trainer is a model that combines practice in surgically securing the airway with practice in the treatment of obstructive shock.







#### a.Puncture and Incision of the Cricothyroid Ligament

- The puncture/incision site includes the airway, cricoid cartilage, and thyroid cartilage.
- Attach your own surgical tape (paper) to simulate the cricothyroid ligament.
- The cricoid cartilage and thyroid cartilage are structured so that they can be opened as a procedure for widening the incision.
- The skin is made with silicone, giving it an appearance and texture similar to the real thing, making training more realistic.



a. Puncture and Incision of the Cricothyroid Ligament

#### Specifications

Thoracic trauma trainer (main body)	Approx.73(L) × 40 (W) ×20(H)cm	Approx.8 kg	
Sponge stand	Approx.45(L) × 30 (W) ×9(H)cm	Approx.560g	
*Sponge stand angle: Approx.10°			

#### Components

••••••	
Thoracic trauma trainer main body	1
Sponge stand	1
Stand	1
Simulated blood (dark type) 500 ml	1
Simulated blood tank	1
AA size batteries	4
Storage bag	1



b. Thoracentesis (Left and Right)

#### b.Thoracentesis (Left and Right)

- Air can be introduced to create swelling of the left or right side of the chest (tension pneumothorax, subcutaneous emphysema).
- Distension of the jugular vein can be simulated in conjunction with the swelling of the chest.
- Sternal angle and second intercostal space are present for use as landmarks for the puncture site.
- Upon puncture, the air flows out, and the swelling of the chest and distension of the jugular vein subside.
- When there is a syringe attached to the puncture needle, air pressure will lift the plunger.
- The skin is made with silicone, giving it an appearance and texture similar to the real thing, making training more realistic.

\*Use a needle smaller than 18G.



c. Thoracic Drainage (Left and Right)

#### c. Thoracic Drainage (Left and Right)

- Two types of sites are available (one that is uncut, so that an actual incision can be made, and one that is precut for repeated use), and procedures can be carried out on both the left and right sides.
- Actual insertion of drainage tubes (trocar catheters, etc.) is possible.
- The fifth and sixth intercostal spaces are present for use as landmarks for the insertion site.
- Attach your own surgical tape (paper) to simulate the pleura.
- The skin is made with silicone, giving it an appearance and texture similar to the real thing, making training more realistic.



d. Pericardiocentesis

#### d. Pericardiocentesis

- A framework (xiphisternum and costal arch) for identifying the pericardial puncture site is present.
- Simulated blood can be drawn when a puncture with the correct angle and depth has been made.
- An error alarm will sound when the angle is incorrect or the puncture is too deep.
- Distention of the jugular vein can be simulated. (Manual type)
- The skin is made with silicone, giving it an appearance and texture similar to the real thing, making training more realistic.

\*Use a needle smaller than 18G.

Spares



2	LM-093B1	Cricothyroid cartilage skin (no cut.)	10
a	LM-093B2	Cricothyroid cartilage skin (with cut)	5
	LM-093CR	Thoracentesis puncture site (right)	1
b	LM-093CL	Thoracentesis puncture site (left)	1
	LM-093D	Thoracentesis puncture skin	2
	LM-093ER	Right thoracic drainage site (with cut)	1
c	LM-093EL	Left thoracic drainage site (with cut)	1
C	LM-093FR	Right thoracic drainage site (no cut)	5
	LM-093FL	Left thoracic drainage site (no cut)	5
4	LM-093G	Pericardiocentesis site for thoracic trauma	1
u	LM-093H	Skin set for pericardiocentesis site for thoracic trauma	1
e	LM-090E	Simulated blood (dark type)500 ml (red-brown color similar to that of venous blood)	1

# **Central Venous Puncture Trainer**

with storage bag

## Outline

Designed for practicing ultrasound guided central venous (CV) puncture as well as landmark puncture.



## Features

- Enables learners to identify the puncture site by recognizing the important landmarks.
- Simulated blood can be collected when a needle is inserted into the vein.
- Enables learners perform CV puncture by putting negative pressure on the syringe.
- Backflow air pressure indicates incorrect puncture of the lung.
- Since silicone rubber is used for the puncture site, the skin is realistic in external appearance and touch.
- Spare parts are available for various puncture sites.
- \* This trainer is designed for practicing exploratory puncture. Catheter and guide wire can't be applied.
- \* Recommed using a needle smaller than 20G.

#### Ultrasound guided central venous puncture

By utilizing an ultrasonography imaging system, internal jugular venous puncture, subclavian venous puncture, supraclavicular venous puncture can be practiced.

# Confirmation of the internal jugular venous access (Ultrasound images of the internal jugular vein)

Pressure on the internal jugular vein by the ultrasound probe, causes the vein to become oval and deformed.



Please note that the ultrasound imaging system works differently in the model than in the human body. Clear images are difficult to obtain in the ultrasound imaging system model.

#### Upgrade your LM-090 with the alert system, "Blind Option"(LM-090A)

Internal jugular venous puncture and subclavian venous puncture can be practiced.
Learners can identify landmarks such as the sternocleidomastoid muscle, mammary papilla, clavicle and sternal notch.

•The alert buzzer indicates incorrect puncture of the common carotid artery or subclavian artery.



Landmark Puncture

Specificat	ions	Components		
Dimensions	Approx. 37 (L) $\times$ 44 (W) $\times$ 13 (H) cm	Main body		1
Weight	Approx. 1.4 kg	Internal jugular venou	is puncture	1
•		Subclavian venous pu	uncture	1
		Blood bag		1
		Simulated blood (Dar	k type)	1
		Syringe		1
		Accessory case		
		Storage bag		
ind Option LM-090A	Components			
	Internal jugular venous	ouncture site for blind option	1	
	Subclavian venous pur	cture for blind option	1	
	Arterial buzzer		2	

# Central Venous Puncture Trainer with Blind Option LM-090AS

Central Venous Puncture Trainer LM-090

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Arterial sensor

AC adaptor



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⑤ LM-090C2	Subclavian venous puncture site for blind option	1
⑥ LM-090CS	Puncture site set for blind option	1
⑦ LM-090D	Arterial buzzer	1
(8) LM-090E	Simulated blood(Dark type) 500ml	1

# **Gynecology Diagnostic Training Model**

with storage case

# Outline

This model can be used for training and instruction for the diagnosis of various disease states in gynecology (including intramuscularis hysteromyoma, subserous myoma, ovarian cyst, and hydrosalpinx), as well as probing and collection of intimal smears.



## Features

- This model can be used for training and instruction for the diagnosis of various disease states in gynecology (including intramuscularis hysteromyoma, subserous myoma, ovarian cyst, and hydrosalpinx), as well as probing and collection of intimal smears.
- The epidermis, vagina and anus are made of a special silicone giving the model suitable flexibility to allow the trainee to obtain impressions that closely resemble the visual and tactile impressions provided by a real human body.
- Both normal and abnormal parts of the internal reproductive organs, consisting of the uterus and ovaries, are provided, and each of these can be easily interchanged.
- The sizes of cysts and edemas can be adjusted by pumping of air, which enables the simulated texture to approximate that of a real human body.

## Applicable Examinations and Procedures

Diagnosis of normal and assorted disease states.

Vaginoscopy	Use of a speculum
Internal examination (bimanual examination)	Diagnosis of both normal and assorted disease states
Rectal examination	Similar to internal examination
Probing	Use of probe during vaginoscopy
Collection of intimal smears	Use of collection instruments

#### Specifications

Main body	Approx.38(L) $ imes$ 39(W) $ imes$ 19(H)cm	Approx.2.2kg
Storage case	Approx.54(L) $\times$ 45(W) $\times$ 26(H)cm	Approx.5kg

#### Components

Main body	1
Normal uterus (also used for retroflexion)	1
Early pregnancy uterus	1
Hysteromyoma 1 (in tunica muscularis)	1
Hysteromyoma 2 (under endometrium)	1
Ovarian 1 (ping-pong ball size)	1
Ovarian 2 (tennis ball size)	1
Hydrosalpinx	1
Air pump	3
Storage case	1



Vaginoscopy



Vaginal Examination



Bimanual Examination



Rectal Examination





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Probing

## **Name of Each Part** Interchangeable Uterus



- 1 Normal Uterus (also used for retroflexion)
- (2) Early Pregnancy Uterus
- ③ Hysteromyoma 1 (in Tunica Muscularis)④ Hysteromyoma 2(under Endometrium)
- (5) Ovarian Cyst 1(ping-pong ball size)
- (6) Ovarian Cyst 2(tennis ball size)
- ⑦ Hydrosalpinx
- ⑧ Air Pump

#### The cross section of the body



#### LM-095

# Virtual Reality Vaginal Exam Model

## **Outline**

The Virtual Reality Vaginal Exam Model makes it possible to see images of the actual movements of the fingers inside the vagina when practicing vaginal exams, something that has not been possible to date. Instructors can now show trainees specifically how the two fingers should be moved when performing the exam, and can check that the trainee is moving their fingers properly.

(Computer not included)

# **Features**

- Sensors attached to the fingers enable measurement and display of distances between the two fingers and the distances moved by the fingers.
- A line connecting the ischial spines (zero station) can be displayed.

- The material used for the model closely approximates the characteristics of living body. The cervix and other structures can be comfirmed with a very real feel.
- Three-dimensional images can be freely moved on the computer, enabling checking in any direction.
- Bishop scores from late-stage pregnancy to the beginning of labor (cervical dilation, effacement, consistency and position) can be confirmed.
- Three models with varying degrees of uterine opening dilation are provided, along with a model of the fetal head. These can be interchanged and the degree of engagement can be adjusted, allowing the progression of labor to be gauged by means of vaginal exam.
- The fetal head model can be used to gauge rotation of the head of the fetus, by varying the positions of sagittal sutures and the posterior fontanel.
- Rotation of the fetus at the time of delivery can be confirmed by means of 3-dimensional animation.



#### The virtual vaginal exam

•Visualization using the actual model used for vaginal exam practice.

•Use of 3-dimensional sensors allows confirmation of actual finger movements on the images.



Displays of the fetus, pelvis, uterus, fingers, and station line can be turned on and off individually.



#### 2 Fetus direction selection

The image of the fetus on the screen can be viewed from any of eight different directions. Orientation of the fetus on the screen can be selected to match the actual-model fetus. The positional relationship of the fingers and fetus on the screen matches that of the actual vaginal exam being performed. (\*Selection of the actual uterus model: This is valid only when using the 8~9 cm uterus dilation model or the fetal head.)



On the screen, the direction changes from P to LA.

# Select images

 Turns the display on and off Selects the uterus Viewpoint

and zoom out.

This is used for parallel movement

- model
- · Selects the fetus direction
- · Selects the light
- source position Initializes all settings

- Measurement
- Between two fingers Single-finger
- movement distance

#### ③ Measurement

#### Measurement between two fingers

This measures the distance between the two fingers to which the sensors have been attached. The distance between two points is measured in centimeters, and is displayed to one decimal



#### Single-finger movement distance

This measures the distance that one of the two sensor-tracked fingers moves. Each time a measurement is made, the result is displayed on the screen as a cumulative display.



#### Operating environment

OS: Windows XP (Service Pack 2) / Vista (32-bit version) CPU: Pentium 4 (1 GHz or more recommended) or later processor Memory: 512 MB (1 GB or more recommended) Graphics card: Desktop: GeForce4 or higher recommended Note: GMA X3100 (Intel GL960, GM965, etc.) or higher recommended \* 2 USB ports (These are used via a trakSTAR and product key connection when operating the model.)

# of viewpoints and to zoom in Transparency Color Display type



 Turns the transparency setting on and off



#### **Delivery rotation animation**

•Rotation of the fetus during delivery can be confirmed using 3-dimensional animation.





## The "Switch View" button can be used to change the fixed point of view.



#### Components

Main body	1
Vulva for vaginal exam	1
Exclusive screws	2
Base for securing main body	1
Finger sensor for index finger	1
Finger sensor for second finger	1
trakSTAR *	1
USB cable	1
Power cable	1
1~2 cm uterus dilation model	1
3~4 cm uterus dilation model	1

8~9 cm uterus dilation model	1
Fetal head model	1
Base for uterus dilation model	1
Baby powder	1
Glycerine	1
Gloves	3 pairs
Product key	1
trakSTAR installation CD	1
Product CD	1
Plastic wagon	1
Cloth cover	1

% trakSTAR is a trademark of Ascension Technology Corporation.

#### Specifications

Main body	Approx. 51 (L) × 28 (W) × 31 (H) cm	Approx. 2.5kg
Vulva for vaginal exam	Approx. 19 (L) × 17 (W) × 15 (H) cm	Approx. 1kg
Base for securing main body	Approx. 24 (L) $\times$ 44 (W) $\times$ 5 (H) cm	Approx. 5kg
trakSTAR	Approx. 19 (L) × 29 (W) × 7 (H) cm	Approx. 1.3kg
Plastic wagon	Approx. 56 (L) × 39 (W) × 82 (H) cm	Approx. 8kg

Item	Power supply	Operable temperature range	Usage environment
trakSTAR	100 to 240 V, 50/60 Hz	5 to 40°C	Magnetic objects or stray magnetic fields within the operable range of the product may adversely affect efficiency.

The Virtual Reality Vaginal Exam Model may malfunction if placed in close proximity to magnetic objects. When using the Virtual Reality Vaginal Exam Model, keep computers and objects that generate magnetic fields at least 1 m away from the base that secures the main body.

# **Physical Assessment Trainer**

with storage case

# Outline

Torso model for acquiring basic techniques for physical assessment (Palpation/Percussion/Auscultation) By inflating simulation lungs, normal and abnormal percussion can be practiced, and normal and abnormal breathing sound can be auscultated. Auscultation of normal and abnormal heart sound are also available.



#### Heart sounds

- 1.Normal (without splitting of S2)
- 2.Normal (splitting of S2 )
- 3.Abnormal splitting of S2
- 4.Hypertension increased intensity
- of S2 at apex
- 5.S4 apex
- 6.Innocent murmur
- 7. Ejection sound aortic site
- 8.Midsystolic click sound
- 9.Midsystolic click murmur
- 10. Tricuspid regurgitation
- 11.Mitral stenosis
- 12.Mitral regurgitation
- 13.Aortic stenosis
- 14. Aortic regurgitation
- 15.Subaortic stenosis
- 16.Atria septal defect
- 17.Ventricular septal
- 18.Pulmonic stenosis
- 19.Pulmonic steno-regurgitation
- 20.Patent ductus arteriosus

#### Breathing Sounds

- 1.Normal vesicular sound
- 2.Discontinuous sounds-fine crackles
- 3. Discontinuous sounds-coarse crackles
- 4.Rhonchi
- 5.Wheezes
- 6.Mixed sounds(rhonchi and wheezes)
- 7.Nervous dyspeneic respiration
- 8.Dyspeneic respiration at rest
- 9.Cardiac asthma
- 10.Dyspeneic respiration in asthma
- 11.Cheyne-stokes respiration
- 12.Biot's respiration



## **Features**

- 20 kinds of heart sounds(2-normal/18-abnormal) are audible through 4 built-in speakers.
- 12 kinds of breathing sounds are reproduced through 3 built-in speakers.
- This simulator is ideal not only for the training at medical school to improve physician's skill but at nursing college(school) for the training of physical assessment. Also suitable for first aid rescue training.
- Accurate percussion skill is acquired with left and right simulation lungs. Normal and abnormal conditions can be reproduced.
- High quality sound tone realize very realistic training.
- Repeat training is available at several places such as at hospital, school, lecture room and home etc., since the simulation is very easy for operation and portable.

# Specifications

#### Chest Torso Model

(Chest skeleton, Simulation lungs, Built-in speaker 4 places at cardiac auscultation, Built-in speaker 3places at breathing sound auscultation)

Torso main body	Approx.21(L) $ imes$ 38(W) $ imes$ 54(H)cm	Approx.7kg
Torso model base	Approx.30(L) $ imes$ 30(W) $ imes$ 1.5(H)cm	Approx.2kg
Sound source	Approx.19(L) $ imes$ 32(W) $ imes$ 9(H)cm	Approx.3.3kg

#### Components

Torso	
Skin	1
Main body	1
Model base	1
Bolt for fixing model base	1
Pump for inflating simulation lungs	1

# Sound source 1 Heart and breathing sound source 1 Cord for connecting model and heart/ breathing sound source 1 Power supply cord for heart/ breathing sound source 1

Others	
Pouch	1
Hexagonal wrench (8mm)	1
Syringe (20ml)	1
Hard case	1

## LM-103

# EGD (EsophagoGastroDuodenoscopy) Simulator

## Outline

This product is a simulator in which an endoscope can be inserted into the upper gastrointestinal tract to perform examination.

Both transoral and transnasal insertion are available, and as an accessory, recreation of an ulcer and an observational polyp is included.

As a separately sold option, a polyp can be attached to practice polyp resection and control of bleeding from it.



### Features

- Specialized silicone rubber is used as the material, and inserting the endoscope feels like inserting it into an actual human body. The color inside is also close to that of the human body.
- Since the oral and nasal cavities have been reproduced, both transoral and transnasal insertion can be practiced.
- For the transnasal insertion, the difficulty setting of insertion can be changed by placing the nasal septum pieces to deviate to the right or the left side. The insertion technique and visibility can be changed.
- Practicing endoscopic examination of the esophagus, stomach, and duodenum is possible. It is also possible to practice cannulation of the papilla during endoscopic retrograde cholangiopancreatography (ERCP).
- Gastric ulcers and early gastric cancer can be observed in the stomach. Four types of polyps of Yamada classification types I to IV can also be attached for observation.
- As a separately sold option, a polyp can be attached to practice polyp resection and control of bleeding from it. After resecting it, one can
  practice the clipping method to stop the bleeding.
- An ulcer is reproduced in the duodenum.



The face portion can be opened at the midline to understand the anatomical structure of the nasal and oral cavities and the larynx.



The dedicated box for packaging can be divided into 2 parts, and it can be used to only cover the stomach side.

Specifications

Dimensions	Approx.27(L) × 80(W) ×29(H)cm
Weight	Approx.8 kg

Medical Education Models



# **Bronchoscopy Training Model**

with storage case

# Outline

This product can be used for insertion training of ultrafine bronchoscopy as well as existing bronchoscopy.



## Features

- Special fabrication methods allow recreation of ultrafine bronchoscopy that could not be done before. Most methods duplicate distal bronchus (e.g. B1ai a). Ultrafine bronchoscopy enables insertion all the way through the distal bronchus.
- The material is specialized silicone rubber. The sense of bronchoscopy insertion allows a feeling like human-like texture due to elasticity. In addition, the internal bronchial tube is a human-like color.
- The bronchi main body and the bronchi-support stand can be easily removed from the black case
- 3D distal bronchus is attachable and washable after insert training.

1

Components	
Bronchi main body	
Stand	

Storage case

#### Specifications

Bronchi main body	Approx.25(L) x 24(W) x 16 (H)cm
Storage case	Approx.30(L) x 32(W) x 27 (H)cm
Weight	Approx.3kg ( including bronchi main body)

# Bronchoscopy Images



# Ultrasonic Bronchoscopy Simulator



with storage case

# Outline

This model can be used not only for ultrathin bronchoscope insertion training, but also for endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) training.

This simulator has achieved more realistic sensation at puncture site and enables execution of the procedure by the external cylinder method %



#### **Features**

- Visualizing ultrasonic bronchoscopy images of lymph nodes embedded in the puncture site enables highly realistic definitive diagnosis of cancer metastases to the hilar and mediastinal lymph nodes, as well as practical training for puncturing the target lymph node. ①
- The ultrathin structures of the bronchi in the bronchi main body were reproduced using a special manufacturing method, including the 5th order bronchi (e.g., B'ai  $\alpha$ ). Ultrathin bronchoscopes can be inserted up to the 5th order bronchi. (2)
- A head model is attached, enabling insertion of the ultrasonic bronchoscope from the oral cavity and confirmation of the bifurcation of the bronchi and esophagus. ③
- $\bullet$  The bronchi main body and the bronchi-support stand can be easily removed from the black case. 4
- The peripheral parts of the three-dimensional bronchi can be fully opened, enabling washing with water following endoscope insertion training. (5)
- The material used is a special silicone rubber. Its elasticity confers a human body-like texture when inserting the bronchoscope. The inside of the bronchi is also similar in color to the human body.

#### \*External cylinder method:

This is such a method that as the external cylinder for puncture needle is pressed against the bronchial wall just before puncture, the tip of the external cylinder for the puncture needle is put into the recess between the cartilages to puncture by pushing the external cylinder together with a bronchoscope to forward and to backward. This method is expected to improve the diagnostic yield by securely collecting tissues while avoiding puncturing cartilages.

#### Takeo Inoue, Noriaki Kurimoto, et al.

New Technique for Endobronchial Ultrasound-guided Transbronchial Needle Aspiration to Improve Diagnostic Yield

J Bronchol Intervent Pulmonol 2013; 20: 28-32



Image of lymph nodes



# Relationship between bronchi and order



#### Specifications

Bronchi main body	Approx. 25 (L) $\times 24$ (W) $\times$ 16 (H) cm	Approx. 0.2kg
Storage case	Approx. 30 (L) $\times$ 46 (W) $\times$ 24 (H) cm	Approx. 3.6kg
Head model	Approx. 17 (L) $\times$ 16 (W) $\times$ 15 (H) cm	Approx. 0.7kg
Puncture site	Approx. 3 (L) $ imes$ 6 (W) $ imes$ 4 (H) cm	Approx. 0.1kg

-	
20m	nononto
20111	ponents
20111	ponionito

Bronchi main body	1
Head model	1
Puncture site	1
Storage case (sponge case attached)	1

#### Spares

LM-099A	Puncture site	2
LM-099B	Head model	1

# Enteroscopy Colonoscopy Simulator

with storage case

# Outline

The Enteroscopy-Colonoscopy Simulator is a practical training model for practicing the insertion technique for enteroscopy (balloon enteroscopy), shortening technique and location recognition. The mobility of the intestinal models resembles that of a living body, providing a realistic simulation of enteroscope insertion.



## Features

- Practical training for enteroscopy (balloon enteroscopy)
- Practical training for the double balloon method can be performed using a double balloon enteroscope.
- Practical training for the single balloon method can be performed using a single balloon enteroscope.
- Using each type of balloon enteroscopy, insertion into the large intestine and small intestine, and shortening technique can be performed.
- •The small intestine has a total length of 120 cm and contains an internal scale with intervals of 30 cm to enable the user to confirm the length of insertion.
- Practical training for colonoscopy
- · Practical training for colonoscopy insertion can be performed.
- The level of difficulty of inserting the Enteroscope into the small intestine can be changed
- •Two types of small intestinal models are selectable, depending on the level of the trainee.
- Easy type (white rubber strap)
- Semi-Difficult type (yellow rubber strap)
- The entire model is washable.





Specifications		
Main body		
Dimensions	Approx. 44 (L) $\times 32$ (W) $\times$ 21 (H) cm	
Weight	Approx. 2.8kg	
Stand		
Dimensions	Approx. 44 (L) $\times$ 27 (W) $\times$ 9 (H) cm	
Weight	Approx. 1.5kg	

#### Spares

LM-100B	Small intestine (semi-difficult type)	1
LM-100C	Small intestine (easy type)	1

# LM-100 Enteroscopy·Colonoscopy Simulator - Full Set



- Includes 2 kinds of small intestine
- Easy type:1 pc
- Semi-difficult type:1 pc

## Components

Main body (small intestine (easy type) attached)	1
Stand	1
Small intestine (semi-difficult type)	1
Sponge for lubricant	1
Baby powder	1
Exclusive instructional DVD	1
Storage case	1

# LM-100A

# Enteroscopy Colonoscopy Simulator - Basic Set



- Includes 1 kind of small intestine
- Easy type: 1 pc

#### Components

Main body (small intestine (easy type) attached)	
Stand	1
Sponge for lubricant	1
Baby powder	
Exclusive instructional DVD	
Storage case	

# ESD(Endoscopic Submucosal Dissection) Training Model

with storage case

# Outline

This resinoid model represents almost similar figure of human stomach, and can be used for the training of ESD. Considering the operability of endoscope, the transition part, from esophagus to stomach is made of soft resin. By setting a real dissected stomach of porcine at the area where ESD is supposed to be executed, very similar feeling of human stomach wall can be recognized using endoscope.



## Features

- The training can be started simply with the combination of this resinoid model and dissected porcine stomach.
- Very realistic and similar feeling to the actual treatment.
- Perforatoin procedure which never be performed during the actual treatment can be experienced while recognizing the risk of treatment with realistc feeling.

# Practical Training

ESD Training mainly for following area

- Vestibular anterior wall
- Vestibular posterior wall
- Greater curvature at gastric angle
- Lesser curvature
- Greater curvature in the gastric body



#### Specifications

opecifications		
Storage case	Approx.24(L) ×31.5(W) ×22.5 (H)cm	
Weight	Approx.2.5 kg	

# Components Stomach model 1 Storage case 1 Metal fitting for dissected stomach 9 Fixing belt for metal fitting 2 Flectrode 1

\*Please prepare dissected porcine stomach separately.
# LM-014 ERCP Training Model with storage case



LM-022

# ERCP Training Model Type E with Indication Function



### LM-104

# Transparent Laryngopharynx Model

### Outline

This is a transparent model that reproduces the laryngopharynx threedimensionally, from the oropharynx to the hypopharynx. It is useful in explanations to help people understand the complex structure of the laryngopharynx, and can be used as a model when training personnel involved in swallowing therapy or when giving explanation to patients or their families.









fluid retained



Splits in two on midline

Introduce fluid to see flow Understand complex of food and amounts of structures through touch

### **Features**

- The model can be split on the midline.
- The epiglottis, pyriform sinus, and glottis are faithfully reproduced, and the depth of the pyriform sinus and laryngeal vestibule can be understood.
- The complex 3-dimensional structure of the laryngopharynx can be intuitively grasped through visualization. The flow of food from the outside can also be seen. (Actual liquids can be used.)
- The importance of food preparation and eating posture can be taught with an understanding of the 3-dimensional structure of the laryngopharynx. The difficulty of coughing up food that has been accidentally ingested can also be understood.
- When teaching videoendoscopic examination of swallowing, the location that is being viewed can be understood by visually comparing endoscopic images and the model.
- The state of occlusion in the esophagus can be expressed with a line to help create a mental image.

#### Brochure: Transparent Laryngopharynx Model

• This brochure introduces methods of use and messages from Supervisor Dr. Naoki Fukumura, M.D., from Tsuruoka Kyoritsu Rehabilitation Hospital.

If you would like a brochure, please contact the nearest distributor.



#### Specifications

Dimensions	Approx. 9 (L) ×11 (W) × 13 (H) cm
Weight	Approx. 1.1 kg

# Transparent Nasal Cavity Model LM-005 Transparent Auricle Model LM-002L(Left) LM-002R(Right)

### Outline

LM-005 Complicated nasal cavity structure is demonstrated. This model can be divided into right and left by nasal septum.

LM-002L/LM-002R Transparent 3-D construction makes it easy to understand the structure from auricle to drum.



Specifications

LM-005		LM-002L/LM-002R	
Dimensions	Approx. 10.5 (L) $\times$ 9 (W) $\times$ 9 (H) cm	Dimensions	Approx. 3.8 (L) × 6 (W) ×7.8 (H) cm
Weight	Approx. 600g	Weight	Approx. 130g

### LM-021A

# **Opeskin: Skin for Surgical Training**

with case, forceps, extra Opeskin 2 pcs

### Outline

Accurate skin structure is reproduced for incision and suture training. Realistic touch of skin, skin resistance and opening when scalpel is inserted are represented. Intradermal sutures are also possible.

### Features

- Realistic Skin Simulation (resilience, mobility, tension and hardness).
- Accurate feeling when scalpel is inserted.
- Accurate representation of opening of skin when scalpel enters. (5 mm grid lines are marked)
- The intradermal suture layer is easily distinguishable by its white color.
- Practical sensation of "needle hooking" for the intradermal suture can be practiced. Since the layer for intradermal suture is made slightly weaker and easier to cut than real biological tissue, if intradermal suture is safely performed without cutting this layer, there will be no problem when addressing a living body.
- Feeling of warmth, bleeding, fine wrinkles and friction coefficient have not been replicated.



## Advanced Life Support Simulator Type III -Save Man Advance-

### **Outline**

This is a training model for Advanced Cardiovascular Life Support, based on the AHA ACLS Provider Course. The training model is inexpensive and using results from previous courses - all necessary functions have been carefully selected. The surface of the head, oral cavity-, and torso are made of silicone rubber to give an authentic, skin like feel.



# **Features**

### Airway management

• Endotracheal intubation, bag valve masks (BVM) ventilation, laryngeal masks, and combination tubes etc can all be used. Insertion via either the oropharynx airway or the nasopharynx airway is possible.



Endotracheal intubation



Oral pharynx airway



Nasal pharynx airway

#### **Airway management**

- The fork of the trachea, and both right and left lungs are structured, so that one-sided lung intubation can be checked by the swelling of the chest. The sound of respiration can also be checked at the lungs and directly on the collarbone and axilla by using a stethoscope.
- An airway obstruction is the right-and-left lungs can be set up.(manual type)



Airway occlusion function (manual type)



Sound of respiration (directly on the collarbone)



Right side airway obstruction



Sound of respiration (axilla)

• With the valve on the esophagus, it is possible to determine whether the stomach is filled with air due to excessive pressure.



#### Fluid therapy route management

• Both sides of the arm have a piece of hook and loop fasteners to which a fluid therapy tube can be attached. \*Real injections can not be performed.





#### Defibrillation, electrocardiogram (ECG) monitoring

- Covers all irregular pulses and ECG waveforms, which are based on the AHA ACLS Provider Course.
- The ECG waveform can be operated intuitively by remote control. The remote controller can be operated cordlessly. (Cordless operation requires a battery)
- Sixteen kinds of ECG waveforms and 4 kinds of additional waveforms can be selected.
- A pulse rate can be varied by stages, and a variety of combinations are possible.
- A common carotid artery, which synchronizes with the ECG waveforms, is palpable, and common carotid artery can be stopped separately.
- (PEA and pulse has VT, and pulseless VT can be simulated) • ECG waveforms are convertible with actual defibrillation and
- transcutaneous pacing.-Setup of the threshold value of transcutaneous pacing can also be performed.
- ECG waveforms of chest compression can be incorporated in to ECG waveforms when there is more than 4 cm of pressure depth of chest compression.
- A standby ECG waveforms that is convenient for courses, such as ACLS, has been configured, and a function automatically performed by defibrillation etc. has been installed.
   \*In scenario function, a maximum of 20 waveforms per pattern can be stored in the memory.



Transcutaneous pacing



Carotid artery



When chest is compressed, ECG waveforms are incorporated

#### Specifications

Sex	Adult male	
Main body(When Upper and Under torso are connected)	Approx.175(L) ×60(D) ×26 (H)cm	Approx.14kg
Upper torso	Approx.95(L) ×60(D) ×24.5 (H)cm	Approx.13kg
Under torso	Approx.90(L) ×41(D) ×26 (H)cm	Approx.1.3kg
Soft case	Approx.100(L) ×59(D) ×33 (H)cm	Approx.2kg

#### Components

Upper torso	1
Under torso	1
Remote controller	1
Battery for remote controller	1
Connect cable for remote controller	1
Infrared receiver	1
Connect cable for infrared receiver	1
Battery charger	1
Electric cord for battery charger	1
AC adopter	1
Tube stopper for lung	1
Syringe stopper for lung	1
Container	2
Soft case	1

LM-073G	Battery for remote controller	1
LM-073H	Battery for main body	1

# **Explanation of Remote Controller Button**

### Remote Controller Size

Length x width x height Approx.23 x 8.5 x 3 (cm) The picture of the remote controller is not full-scale.



### Wave Forms Can be Output by the Following Buttons.

Button	Output wave form
SINUS	Cardiac arrest wave form is carried out by rate 0
AF	Sawtooth wave form is only carried out by rate 0
3°AV	P wave form is only carried out by rate 0
PSVT	Inverted P wave form can be confirmed by rate 160 or below
VT	It can be used as bradycardia of wide QRS. The rate falls to 20.

#### Sold Separately



LM-0852	Hard case with caster	
Dimensions	Approx.117(L) ×71(D) ×38 (H)cm	
Weight	Approx.18kg	



LM-0851 ECG monitor set for PC

This consists of software and peripherals that allow the electrocardiograms that are produced by the SaveMan Advance to be displayed on a PC monitor. \*Personal computer and monitor not included.

Operating Environment: Windows XP, USB 2.0

### LM-073

## Advanced Life Support Simulator Type II -Save Man-

Correspond to ACLS "Airway occlusion by depressing root of tongue" "Arrhythmia simulator with cordless remote control" "Palpable common carotid artery"



### Outline

This whole body simulator facilitates a series of advanced life support training with extreme realism for both treatment during transportation and at hospital. This model can be utilized at several fields like fire stations, life saving schools, hospitals and ACLS training courses.

### **Features**

#### **Airway management**

- The airway is occluded by depressing the tongue, and the airway can be secured by chin lifting, upper jaw lifting and head recurvation methods.
- Endotracheal intubation and insertion of laryngeal mask, esophagus closing tube, laryngeal tube and two-way tube can be practiced.
- With the valve on the esophagus, it is possible to confirm if the stomach is filled with air due to excessive pressure.
- The fork of trachea, and both right and left lung is structured, therefore one side lung intubation can be confirmed with the swelling of the chest. The sound of respiration can be also confirmed at the lung and directly on the collarbone and axilla by using a stethoscope.



#### Intravenous injection and infusion

• A very lifelike sensation can be experienced, and back flow can be confirmed. (Since the unique structure simulates venous pressure, a liquid bag is not necessary)





#### Defibrillation, electrocardiogram(ECG) monitoring

- Defibrillation training can be practiced by using the built-in arrhythmia simulator. ECG waveform can be operated by the wireless infrared remote control system.
- 15 kinds of ECG waveforms and 7kinds of additional waveforms can be selected. The heart rates of ECG are variable in stages by using remote controller, and various combinations can be selected.
- While performing cardiac massage with over 3.5cm of compression depth, the waveform of cardiac massage can be mixed with ECG.
- Power supply is battery-based and can be used in continual operation for approximately 10hours on a single charge.
- Since the common carotid artery which synchronized with the ECG waveforms can be touched and only a common carotid artery can also be stopped. PEA and, VT with pulse and pulseless VT can be simulated.
- Percutaneous pacing can be performed, and threshold value can be also set.
- The number of times for defibrillation can be set (maximum 9 times). Thereby, the scenario recovering from VF to Sinus rhythm at the 3rd times of defibrillation can be set easily.
- VF can set up three kinds. (VF, VFfine, VF veryfine)
- Torsades de Pointes waveform can be set.



# **Explanation of Remote Controller Button**

### Remote Controller Size

Length x width x height Approx.23cm x 8.5 cm x 3 cm The picture of the remote controller is not full-scale



# Advanced life Support Simulator Type II -Save Man-

### Components

Main body	1
Wear	1
Soft case (storage bag)	1
Battery charger	1
Arrythmia simulator	1
Simulated blood (500ml)	1
Lung bag (for right and left)	1 each
Simulated foreign object	1
Simulated rice cake	1
Blood vessel tube (20pcs)	1
Pad adapter *	1

### **Consumable Parts**

LM-073R	Skin for right arm (injection site)	1
LM-073L	Skin for left arm (injection site)	1
LM-073B	Lung bag (2 pcs each for right and left)	1
LM-051A2	A2 Blood vessel tube (20 pcs)	
LM-028D	Simulated blood (500 ml)	1
LMV-01	LMV-01 Simulated foreign object (5 case)	
LM-073G	Battery charger for remote control	1
LM-073H	Battery charger for main body	1
LM-073E	1-073E Simulated rice cake (2 pcs)	

Specifications		
Sex	Adult male	
Dimensions	Approx.175 x 60 x 25 cm	
Weight	Approx. 22 kg	

Nihon kohden type II	EC-2212.2213	LM-073K
Nihon kohden AED type	AED-9100.9200	LM-073P
Laerdal	Heart start 3000	LM-073N
Laerdal FR-2	Heart start FR2.4000	LM-073U
Zoll	FC-2100.2110	LM-073S
Physio first patch type	Life Pack 12A	LM-073Q
Physio Quick Combo	Life Pack 12A.LP500	LM-073V
Soft case (green)		LM-073F
Hard case (with caster)		
	Nihon kohden type II Nihon kohden AED type Laerdal Laerdal FR-2 Zoll Physio first patch type Physio Quick Combo se (green) se (with caster)	Nihon kohden type IIEC-2212.2213Nihon kohden AED typeAED-9100.9200LaerdalHeart start 3000Laerdal FR-2Heart start FR2.4000ZollFC-2100.2110Physio first patch typeLife Pack 12APhysio Quick ComboLife Pack 12A.LP500se (green)Se (with caster)

# **Training Model for Securing Venous Tract**

Optional item for Advanced Life Support Simulator

### Outline

Emergency medical technicians need to secure sinus venous when administering medicine. This model is to thoroughly practice sinus venous securance and to strain for training basic sinus venous securance and application practices such as for narrow / deep veins. It can be installed in Advanced Life Support Simulator.



### Features

- Can practice venous securance for antebrachial, median venous and opisthenar venous.
- Setting various scenes, there are five kinds of simulation veins which are as exchangeable supplies.
- Using silicone rubber to main parts such as skin etc., appearance and feeling are very similar to that of human skin for training with reality.
  Simulating the pressure of venous, back-flow of venous blood can be confirmed.



Possible to install five kinds of simulation veins.



Possible to secure opisthenar venous tract

# Five kinds of Simulation Veins

### **Standard type**

This is a standard blood

thickness of the blood

For the purpose of

feel.

models.

vessel. Please confirm the

vessel, the running, and the

practicing CPA, there is less

vascular wall resistance

than there is for ordinary

### Narrow type

### The blood vessel is hard to find and secure. \*For example, a blood vessel of a young woman.

# This has the same

Flat type

thickness as standard vessels, but it is flattened so it is easy to pierce with a needle. A vessel practicing CPA.

**Deep type** 

The wall of fat is thick. \*For example, a blood vessel of an obese man.

### Meandering type

Tension is applied, the blood vessel is stretched and can then be punctured. \*For example, a blood vessel of an elderly person.



0





⑦ Opisthenar ⑧Simulated blood (500ml) 10 Syringe <sup>(1)</sup>Upper arm skin for main body 12 Blood bag <sup>13</sup>Opisthenar venous tube (10pcs/set)

#### Spares

6 Arm skin

0

Components

0

①Vein part (standard type)

②Vein part (narrow type)

③Vein part (flat type)

④Vein part(deep type)

⑤Vein part(meadering type)

1 LM-0861	Securing venous tract vein part ( standard type )	1
② LM-0865	Securing venous tract vein part ( narrow type )	1
③ LM-0863	Securing venous tract vein part ( flat type )	1
④ LM-0862	Securing venous tract vein part ( deep type )	1
⑤ LM-0864	Securing venous tract vein part ( meandering type )	1

0

0

(11)

(12)

6

(4)

(1)

(5)

(13)

9

(8)

(10)

6	LM-0866	Securing venous tract arm skin	1
7	LM-0867	Securing venous tract opisthenar venous	1
8	LM-028D	Simulated blood (500ml)	1
(13)	LM-0868	Opisthenar venous tube	10

# **Neonatal Resuscitation Model**

with storage bag

### Outline

This model is for practicing cardiopulmonary resuscitation for a neonatal baby. It is suitable for practical training and the basic handling of a neonatal baby. It can be used for neonatal cardiopulmonary programs (NCPR), neonatal resuscitation programs (NPR) and various courses.



### **Features**

- This model is made of specially developed silicone rubber, which has a similar feel to a living human body.
- Thoracic movement can be observed through positive pressure ventilation by utilizing the bag valve mask.
- The airway can be managed by utilizing the laryngeal mask and intubation tube.
- With deep-seated intubation of the tracheal tube, the elevation of the right lung can be checked.( One-sided lung intubation )
- Oral and nasal suction can be practiced.
- Chest compression can be practiced.
- Umbilical vein catheterization can be practiced.

Tracheal intubation

Measure the beat at the base of the umbilical cord and determine the heart rate.



Chest compression

Bag valve mask

Specifications

One side lung intubation

Components		Specifications	
Main body	1	Height	Approx. 50cm
Strage bag	1	Weight	Approx. 2500g

Umbilical vein catheterization Determination of heart rate (Umbilical cord)

**Cardiopulmonary Resuscitation Training Models** 

## **KOKEN** Airway Management Model

with storage case



### Outline

The Koken Airway Management Model brings realism to training on airway maintenance using various apparatus such as endotracheal intubation, and using a laryngoscope. It is also suitable for practicing the removal of foreign objects in the airway with forceps and confirming respiratory sound.



Laryngoscope, tubes and other apparatus not included.

### Features

- By using specially developed silicone rubber, this model provides a similar appearance and touch as that of a living human body.
- Trainees can practice using various apparatus including endotracheal tubes, laryngeal masks, EGTA, combination tubes, and transnasal airways.
- Opening the larynx with a laryngoscope, removing foreign objects in the airway with forceps, and performing endotracheal aspiration can all be practiced.
- Trainees can smoothly elevate the submaxilla and open the mouth. There is a realistic feel to the skin, oral cavity, and tongue.
- Dilation of the stomach when air enters the esophagus can be confirmed.
- Left and right respiratory sound can be heard with a stethoscope.
- A warning sound is generated when a laryngoscope places excessive pressure on the front teeth.
- This product is an EDD (Esophageal Detector Device).
   When the esophagus is intubated, the Esophageal Detector Device can confirm there is no re-expansion.

### Practical Training

- Elevating the submaxilla.
- Clearing the airway with an endotracheal tube, laryngeal mask, EGTA, or combination tubes.
- Inserting a transnasal airway.
- Giving artificial respiration with a bag mask.
- Using a laryngoscope, removing endotracheal foreign matter with forceps, and doing endotracheal respiration.
- Confirming the dilation of the stomach when air enters the esophagus.
- Hearing respiratory sound with a stethoscope.

#### Specifications

Main body	Approx.60(L) × 30(W) ×27(H)cm	Approx.8kg
Storage Case	Approx.64(L) × 36(W) ×36(H)cm	Approx.6kg

85

#### Components

1
2
1

LMV-01	Simulated foreign objects	5
LM-059A	Replacement tongue	1

# KOKEN Endotracheal Intubation Training Model

Edema Version with storage case

### Outline

This is a training model for endotracheal intubation. It is possible to practice normal endotracheal intubation practices, of course, as well as to re-create various kinds of edema. Also, exchanging optional parts-set enables this model to be interchangeable larynx version.





### Varied Combination -Three Kinds of Edema-

Each edema can be created by injecting air in each cuff, colored three ways. It is possible to train variously by adjusting the amount of air to be injected and varied edema to be combined.





More Original Features

• Possible to re-create the Cormack grade of 1-3.

Possible to change the sight of glottis by administrating BURP.



#### Specifications

Main body	Approx.60(L) × 30(W) ×25(H)cm	Approx.8.2kg
Storage case	Approx.64(L) $\times$ 36(W) $\times$ 36(H)cm	Approx.6kg

LM-076P1	Parts-set for micrognathia/head-tilt distress	1set
LM-076P2	Edema version optional parts set	1set
LM-076P3	Mouth part skin	1

### **Features**

- By using a specially developed silicone rubber, this model provides a very similar appearance and feeling to those of a living human body.
- Trainees can practice using various apparatus such as laryngeal masks and EGTA, etc.\*
- Resistance to open the larynx and structure of oral cavity make it possible to train with reality feeling of a living human body.
- Dilation of the stomach can be confirmed when air enters the esophagus.
- Left and right respiratory sounds can be heard with a stethoscope.
- A cautionary sound is generated when a laryngoscope places with excessive pressure on the front teeth.
- \* Since this model was developed specifically for endotracheal insertion training, some air leakage may occur during artificial respiration if using a bag mask or tubes instead of an endrotracheal tube.

### Applicable New Standard EDD

Esophageal Detector Device (EDD).Can be applied. EDD does not re-dilated when inserting a tube into esophagus.



### Parts-set for Micrognathia / Head-tilt Distress

If you purchase this product separately, you can simulate the situations of "micrognathia" and "head-tilt distress" and increase the variations of training.





#### Head-tilt distress

In order to make head-tilt distress, please insert the plate attached as the picture below.





Inserting the plate makes it impossible for the head to tilt and for head-tilt distress to happen.



"Head-tilt distress"

### LM-077 (Red) /LM-077B (Blue)

# Kapsee- Capsule Case Face Shield

with keychain capsule

### Outline

Face shield for artificial respiration during cardiac resuscitation.

Comes with one-way valve, and suitable for protection from infection.

The case reminds the capsule for a pill, and convenient for carrying.

### Features

- Round shape face shield makes possible to attach from any directions.
- Easy for use
- Lightweight
- Cardiac resuscitation procedure is described in the attached instructions for use.





A folded face shield for cardiac resuscitation in the small capsule.

Face shield features a circle and enable to attach from any direction.



20pcs/box

### LM-087

# Face shield for CPR training Faceshee 200 sheet /set

### Features

• Reasonable price.

- Those who prefer not to use their mouth on a doll directly or those who are sharing a model while training should use the face shield.
- Sanitation while training can be increased further by washing and disinfecting the doll's mouth.
- This product can be used in various classes and educational facilities.





### Example of Use

This is a face shield only for training in artificial respiration using training models. \*Since this is only for training models, please do not use it on a real person



#### Specifications



# **KOKEN Rat**

### Outline

KOKEN Rat - Rat model for use in the training of animal testing techniques. When various experimental procedures are conducted using laboratory animals, it is important to restrain the animal properly and to develop techniques that will meet the necessary experimental objectives. When an inexperienced laboratory animal handler holds a rat for the first time , there is a risk that the handler may be bitten or may accidentally drop the animal. Therefore, KOKEN has developed the KOKEN Rat as a training tool. The beginner can learn the techniques of proper holding of the animal, peroral feeding, tail vein injection and blood collection, and endotracheal intubations.



### Features

- The pharynx, larynx, trachea, stomach, and tail vein are anatomically correct and replicated in the rat model.
- Our original silicone and soft vinyl chloride materials are used to achieve a texture similar to that of a live rat.
- When placed in the standard position, the resulting posture is the same as that of a living rat.
- Dosage in the stomach can be confirmed through the transparent section of the abdomen.
- Needle insertion into the tail vein can be confirmed by the reflux of imitation blood.

### Practical Training

- Retention
- Tail intravenous dosage and blood collection Endotracheal intubation
- Peroral dosage
- Structure
- 1) epidermis 6 drainage
- (2) endothelium (7) integument of the tail
- ③ stomach
- (4) trachea
- (8) a tail vein blood vessel tube
- (9) a connector for exchanging tails



### Cautions for Use

Handle this model as carefully as you would a living rat. Rough treatment may damage the model.

Strain	SD
Sex	Male
Age	9 weeks
Body length [tail length]	21 cm [19 cm]

#### Components

1	
Main body	1
Tail	1
Retainer with cover	1
Simulated blood (50cc)	1

opaioo			
LM-046A2	Tail	1	
LM-046A3	Simulated blood (50cc)	1	



# **Discontinued Products**

The following products have been discontinued. For information of repair and parts replacement, please contact the distributor from which you purchased the product.

	Product Number Product Name	Upgraded to	Page
	LM-014 ERCP Training Model	LM-103 EGD(EsophagoGastroDuodenoscopy) Simulator	62
	LM-022 ERCP Training Model Type E With Indication Function	LM-103 EGD(EsophagoGastroDuodenoscopy) Simulator	62
	LM-044B Colonoscopy Training Model Type I-B	LM-100 Enteroscopy • Colonoscopy Simulator	68
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R	LM-0632 Obstetric Model-Vulva	LM-101P Obstetric Model-Vulva II Primipara Type LM-101M Obstetric Model-Vulva II Multipara Type	12
	LM-064 Full-body Pregnancy Simulator	LM-101C Full-body Pregnancy Simulator (Obstetric Model - Vulva II)	4
N	LM-063A Midwifery Practice Model Set	LM-101A Midwifery Practice Model Set (Obstetric Model - Vulva II)	8
	LM-063B Obstetric Assistant Model Set	LM-101B Obstetric Assistant Model Set (Obstetric Model - Vulva II)	11
Ň	LM-067 The Aged Simulation Trial Set		
Å	LM-069 Healing Baby For the Aged Car	2	
	LM-070 Suction Training Model	LM-097 Suction Training Model Type II	46
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	LM-079 Multi Function Patient Care Sim	nulator	

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Medicine, Health, Welfare and Beauty. The objective of our operations is always centered on people.

### **Business Domains**

Collagen, medical plastics, educational models...in the diverse fields we work in, as a leader we continue to support the future of people and life itself.

Collagen	Koken has developed Atelocollagen, which has extremely low antigenicity. As a material, it is used in medical devices, in basic research and as a material for the manufacture of cosmetics. Also, a variety of new applications are being developed in such advanced medical and therapeutic fields as regenerative medicine and nucleic acid medicines, further expanding the possibilities of collagen.
Medical Plastics	As a pioneer in the field of medical plastics in Japan, Koken has introduced a number of highly innovative new products. These include the tracheotomy cannula which enables speech, the nasal retainer and tissue expanders used in ENT treatment and cosmetic surgery, representing a wide lineup of various types of products.
Life Simulation Models	In the fields of medicine, nursing and emergency care, the education of qualified professionals requires the use of life simulation models and other simulators developed by Koken. These are individually crafted by hand using Koken's original technology, resulting in a surprisingly realistic appearance and feel. In every aspect, they represent the crystallization of Koken's remarkable skill and leading-edge technology.

# **Corporate Data**

KOKEN CO., LTD.

Established	October, 1959
Capitalization	150 million yen
President	Yuzo Tarumi, Ph.D. (Representative Director)
Main Products	Medical plastics, collagen products for medical use and as cosmetic ingredients, medical education equipment, including life simulation models
Headquarters	1-4-14 Koraku, Bunkyo-Ku, Tokyo 112-0004 Tel 81-3-3816-3542 Fax 81-3-3816-3582
Sales Offices	Sapporo Sendai Tokyo Nagoya Osaka Fukuoka
<b>Research Center</b>	Токуо
Plant	Tsuruoka Plant Tsuruoka East Plant Sakata Plant
Subsidiary	Yamagata

# **A History of Progress and Innovation**

- 1959 Dr. Taichiro Akiyama establishes the Medical Plastic Center (MPC) along with Koken Co., Ltd. Production of medical-use silicone begins.
- 1968 > The Japan Biomedical Material Research Center (formerly MPC) is established in Meguro, Tokyo.
- 1977 ) Capitalization increased to 25 million yen. The Koken factory is completed in Tsuruoka, Yamagata Prefecture, Japan.
- 1977 ~79 With the support of the forerunner of the Japan Science and Technology Agency, life simulation models for medical education were developed.
- 1 9 8 3 ) Capitalization increased to 45 million yen.
- 1986 Capitalization increased to 90 million yen. Capital funds received from the Tokyo Small and Medium Business Investment & Consultation Co., Ltd. was renamed the Koken Bioscience Institute.
- 1989 🕨 Osaka Sales Office opened.
- 1991 The Tsuruoka Factory was expanded into new and larger facilities.
- 1996 Board Member Teruo Miyata was appointed President of Koken.

- 1 9 9 8 > Koken obtains ISO 9002 (1994) and EN 46002 (1996) certification.
- 1999 Fukuoka Sales Office opened.
- 2001 Research Center is moved to Ukima, Kita-ku,Tokyo. Koken obtains ISO 9001 (1994) and EN 46001 certification.
- 2003 Capitalization increased to 110 million yen.
- 2004 Koken obtains ISO 9001 (2000) and ISO 13485 (2003) certification.
- 2007 New factory for life simulation models is completed.
- 2008 Board Member Yuzo Tarumi was appointed President of Koken.
  - Nagoya and Sendai Sales Offices opened.
- 2 0 0 9 Koken celebrates its 50th Anniversary. Capitalization increased to 150 million yen.
- 2 0 1 0 Koken established its subsidiary,Silica Koken. Sapporo Sales Office opened.
- 2011 Koken relocated its Headquarters and Tokyo Sales Office to Koraku, Bunkyo-ku,Tokyo.
- 2 0 1 2 Sakata Plant was established in Sakata City, Yamagata Prefecture.