

MW26

Basic Patient Care Simulator “KEIKO”

Instruction Manual



Contents

• Introduction	
Manufacturer's note	P.1
DOs and DON'Ts	
• Before you start	
Set includes	P.2
• Preparation	
Manikin assembly	P.3-P.4
Patient setting	P.5-P.7
• Training	
Body positioning	P.8-P.9
Patient handling for postural drainage	
Bed and partial bathing / Hair care Oral care	P.10
Oral care / Pressure sores	P.11
Perineal care / Urinal catheter insertion	P.12
Urinal catheter insertion / Enema	P.13-P.14
Tube insertion for feeding	P.15-P.17
Airway suction	P.18-P.19
Airway suction / Stoma care	P.20
Suppository insertion / Oxygen inhalation	P.21
CV port care / Postmortem care	P.22
Transfer and Mobility Assistance	P.23
• After training	
Dismantling the manikin and storing	P.20
Storage	P.21

Movie Site



English



KYOTO KAGAKU co.,LTD

<https://youtu.be/9YSnrV4gNwQ>

Introduction

Manufacturer's

“KEIKO” is a multi-purpose training manikin for teaching and learning hospital and community care procedures. The manikin can sit upright without support. Soft, life-like materials and seamless limbs provide realistic hands-on training.

Attention

This basic patient care simulator “KEIKO” has been developed for the training of medical and para-medical professionals only. Any other use, or any use not in accordance with the enclosed instructions, is strongly discouraged. The manufacturer cannot be held responsible for any accident or damage resulting from such use. Please use this model carefully and refrain from subjecting to any unnecessary stress or wear.

Features

- Basic daily care to the patient can be demonstrate with the whole body manikin.
Oral care, Pressure sores care, Body positioning, Perineal care and etc.
- As medical care, oral airway suction can be trained and tube handling for nasal and tracheotomy suction as well.
- Whole body manikin allows to train communication skills and appropriate handling of patient.
- Manikin can be set either male or female for various training scenarios.
- The upper and lower bodies are separated so that easier to store and transfer.

DOs and

DOs

- Handle the manikin and the components with care.
- Storage in a dark, cool space will help prevent the skin colors from fading.
- The manikin skin may be cleaned with a wet cloth, if necessary, using mildly soapy water or diluted detergent.

DON'Ts

- Do not let ink from pens, newspapers, this manual or other sources contact with the manikin, as they cannot be cleaned off the manikin skin.
- Never use organic solvent like paint thinner to clean the skin, as this will damage the simulator.
- Even if color on its surface might be changed across the ages, this does not affect the quality of its performance.
- Do not leave the tapes or dressing materials onto the manikin as the adhesive may be left and the surface becomes sticky.

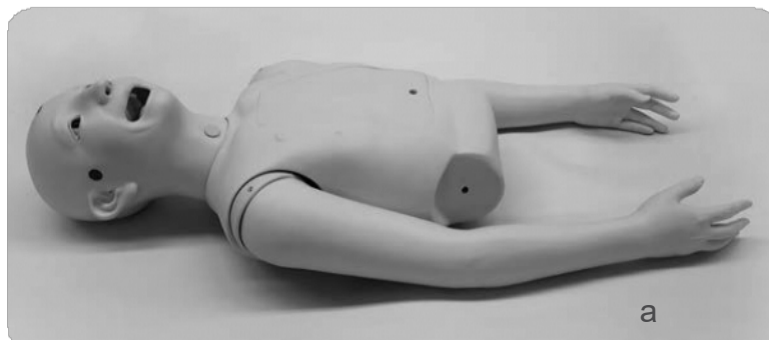
Before you start

Set includes

Set includes

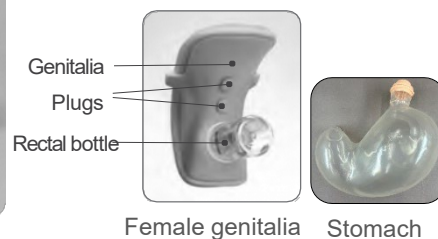
Before you start, ensure that you have all components listed below.

• Manikin

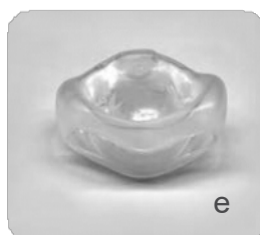


Upper body
Head
Eyes
Plug for tracheotomy
Torso
Chest cover
Arms

Lower body
Abdomen
Stoma
Female genitalia
Genitalia
2 Plugs
Rectal bottle
Legs



• Part



- a. Upper body manikin 1
- b. Lower body manikin 1
- c. Wig 1
- d. Dentures 1
- e. Oral cover 1

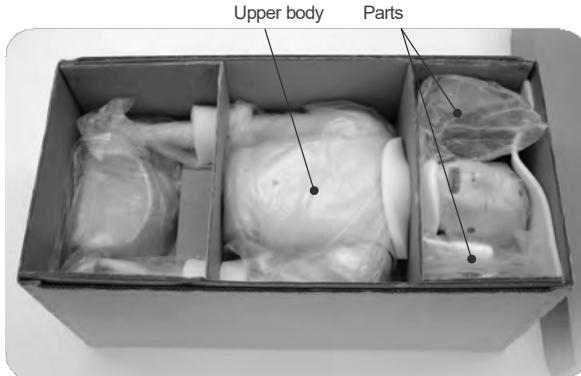
- f . Male genitalia 1
- g. Under pants 1
- h. Assembly kit 1 set
- i. Lubricant for manikin 1
- j. Lubricant for manikin(catheterization, enema and suppository insertion) 1
- k. Velcro tape (no photo) 1 set

1 Unpacking

1. Start unpacking in a large space.

Remove the partitions to take out the upper body and parts.

Top of the box



Bottom of the box



2. Lower body is in bottom of the box. Remove the partitions to take it out.



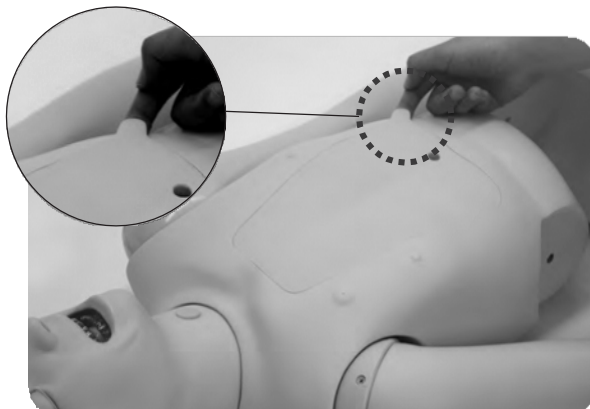
.....
Handle with care when transfer the
manikins. Keep the packing partitions
for storing.



2 Assembly

1. Assemble the upper and lower bodies.

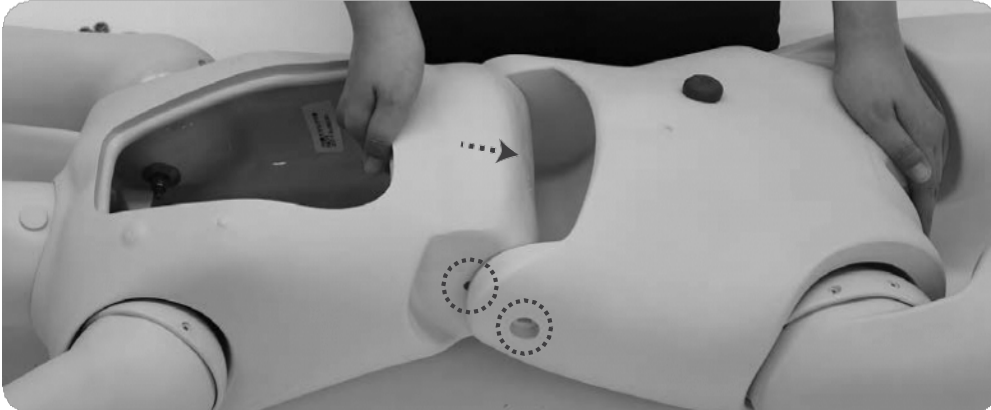
① Open the chest cover by pulling the tab.



2 Assembly

2. Raise the both arms to assemble the bodies.

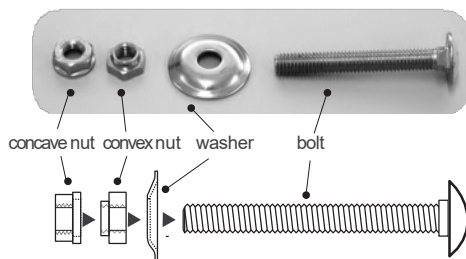
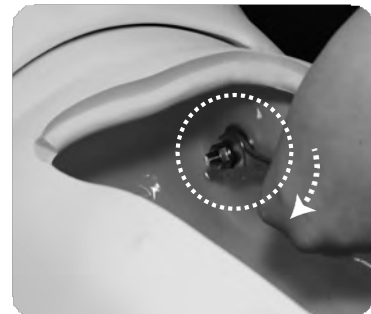
Insert the upper body to the lower body until the bolt-holes overlap each other.



3. Insert the bolt to the hole from the outside and set the washer from the inside.

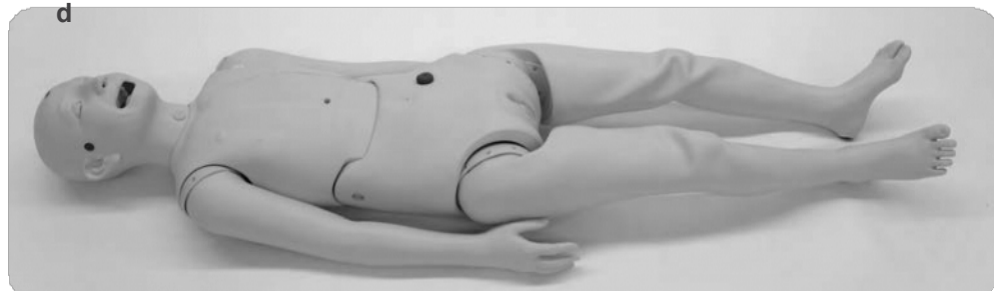
Fix them with 2 kinds of nuts. First screw the convex nut to then screw concave nut to the bolt.

Tighten the concave nut with the screw wrench which is included the assembly set.



.....
Stop tightening when the bolt and nuts twist together to avoid breakage of bolt-hole of the manikin.

• Complete
d

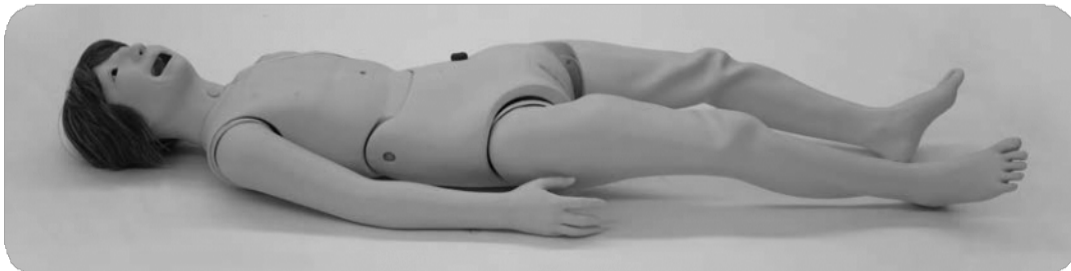


1 Patient setting

Manikin can be set for various training scenarios.

Changing genitalia

Changing wig



2 Setting of the wig

The wig set by the magnets at the forehead and in front of right and left ears.

«Setting the wig»

- 1) Put on the wig on to the head in correct direction then fix it at the magnet at the forehead.
- 2) Fix the wig with the magnet in front of right and left ears.
- 3) Adjust the wig to fit well on the head.
- 4) Completed.



2 Setting of the

《Taking off the wig》

- 1) Take off the magnet in front of the ears.
- ② Take off the magnet of the forehead and slip the wig to the backside.



《Maintenance》

Store the wig by following steps.

- 1) Brush the wig after use.
- 2) Insert the balled-up papers avoid losing its shape.
- 3) Roll the tips of hairs inside by hands.
- 4) Store the wig in the bag.

3 Replacing the genitals

1. Removing the female genitalia.

- ① Pull out the upper side of the female genitalia by the finger.
- ② Hold the genitalia with both hands and slide it up to remove from the lower body.



3 Replacing the

2. Rectal bottle

Make sure the rectal bottle is firmly tightened.



3. Setting the male genitalia

① Slide the genitalia down the lower body.



② Set the tabs of genitalia to the slit of the lower body.



③ Set the edge of the upper genitalia to the lower body.



1 Body positioning/ patient handling for postural

Soft and life-like articulation allows realistic training of basic patient care like patient positioning and transfer, changing clothes and patient handling for postural drainage.



.....
Avoid color migration to the manikin, choose the faint color pajama. Optional pajama is recommended to keep the manikin wear in long-term.

2 Bed and partial bathing

Training for bed bathing and partial bathing (hands and feet) is possible.

*Whole body tub bathing is not possible.



3 Hair

Use the optional wig for hair care. The wig is made of artificial hair and can be used for hair care training like shampooing, rinsing, brushing and blowing.

《Setting the wig》

Follow the instruction on P.5.

《Taking off the wig》

Follow the instruction on P.6.

《Maintenance》

Do not leave the wig wet.

To avoid hairs of the wig getting tangled, maintain the wig by following instruction.

- ① Dry the wig well after shampooing then brush it. After dried, silicon spray can be used to avoid tangling of hairs.
- ② Take off the wig from the manikin and store it separately.



.....
Do not brush strongly to avoid damaging the wig.
Rinse the shampoo soon and not leave it on the wig for long time. Avoid direct sunlight or heat as they damage the wig.

1 Oral

Whole body manikin allows oral care training in various patient situation.

- Brushing (without the denture or with the oral cover)
- Oral massage (without the denture and oral cover)
- Denture care (with the denture)
- Oral care for the patient with NG tube.

*The oral cover can be used for the explanation of the oral care in the class.

For the training using water, pour the water little by little to the oral cover set to the manikin.



Ensure to attach oral cover whenever performing oral care training that uses liquid. Otherwise liquid (water) may enter inside of the manikin and may invite mold, fungi or other moist related troubles. In case liquid enter the manikin body, open the chest cover to wipe the liquid and then dry the manikin thoroughly.

《Setting of the oral cover》

- ① Apply the lubricant to the back side of the oral cover to insert it to the mouth smoothly.
- ② Fold the cover and insert it to the mouth.
- ③ Fit the cover in to the mouth.



Oral cover can not be set when the dentures are set in the mouth. Set the oral cover more than 5 minutes before the training as the oral cover may be easier to move during the training session by new lubricant.

1 Oral

《Removing the oral cover》

- ① Remove the oral cover slowly by the fingers.



Wash the oral cover with the soap or neutral detergent after removing from the manikin. Store the oral cover after naturally dried and avoid heat and humidity.

《Setting of the dentures》

Both upper and lower dentures are fixed to the gums by two pins at the center and left side. Insert the pins of dentures to the holes of the gums.



《Detaching the dentures》

Pull downward to detach the upper denture and pull upward for the lower denture.

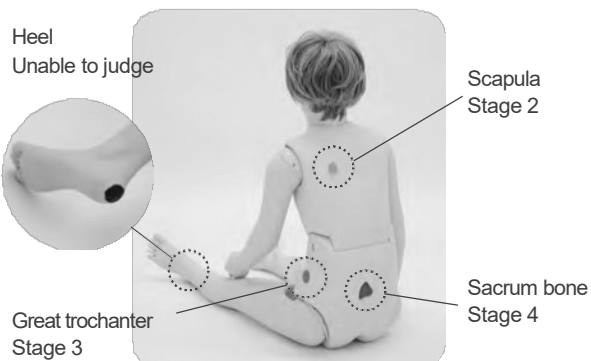
2 Pressure sores care

The realistic pressure sores on the manikin allows to explain the variation of pressure sores and typical places. The whole body manikin helps to train daily life caring for the patient care and how to clean and wrap the pressure sores.

- Body positioning
- Pressure sores care
- Changing diapers



Use water (not saline) for the training of cleaning pressure sores.



1 Perineal care

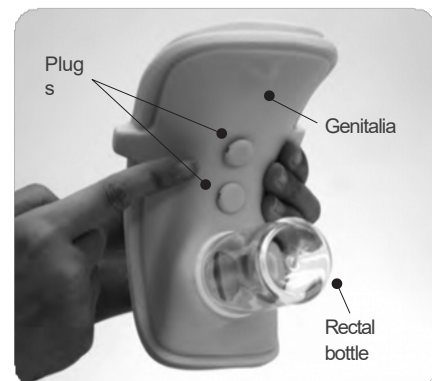
Anatomically correct genitals allow to train detail cleaning. (Glans and foreskin of penis for male and labia majora for female)

Suitable for comprehensive training through changing clothes, perineal care and changing diapers.



《Preparation》

Make sure the rectal bottle is firmly tightened. For female genitalia, make sure the 2 plugs are put to avoid water coming into the inside of manikin.

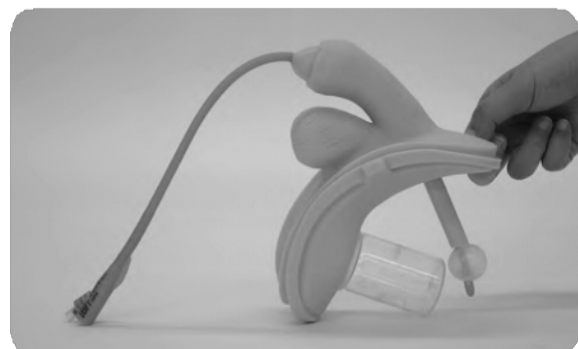


《Storing》

Take off the genitalia from the manikin then take off the rectal bottle from the genitalia. Wash the genitalia and rectal bottle with water then dry them well before storing.

2 Urinal catheter insertion

Body positioning, catheter insertion and the daily support to the patient who has an indwelling catheter.



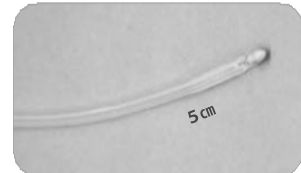
2 Urinal catheter

《Preparation》

1. Take off the plugs of genitalia for the training of female catheterization.



2. Apply the lubricant for the catheterization to the tip of catheter. (approx. 5cm)



***Recommended catheter size: Male 16Fr, Female 14 Fr for indwelling catheter
8-12Fr for intermittent catheter**

Use the included lubricant for catheterization. Jelly or other lubricant may leave in the genitalia and cause defect inside.

Use water for sterilization training instead of real antiseptic solution.

《After training》

Remove the catheter after the training. For female, remove the genitalia from the lower body and rinse the lubricant with the mild soap. After it dried, set the plugs and store it.

For male, wipe the lubricant on the skin by tissue. Rinse the lubricant in the meatus with the mild soap. Store it after dried.



3 Enema

Body positioning and enema training

Apply the included lubricant to insert the enema syringe.



《Preparation》

Insert tissues to the rectal bottle to absorb enema solution. Set the rectal bottle to the genitalia then set it to the manikin for the training. Use 30mL enema syringe and replace the tissue in each injection.



《After training》

Remove the tissue from the rectal bottle. Clean the genitalia and rectal bottle with the mild soap. After the parts are dried, set the rectal bottle to the genitalia and store them.



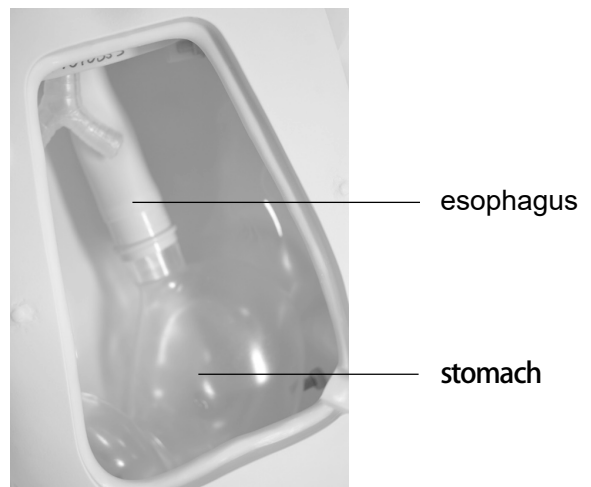
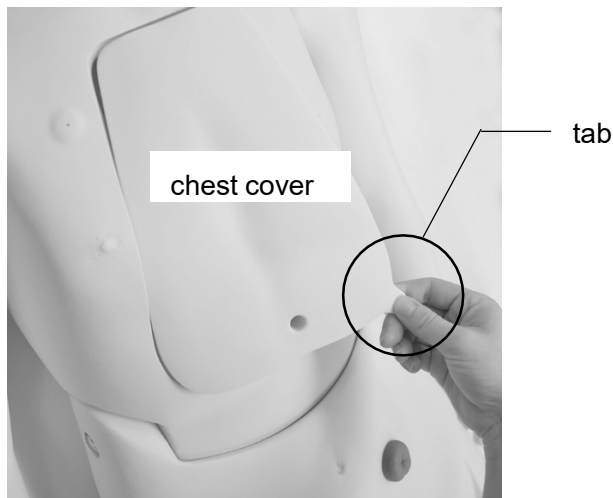
.....
Use the included lubricant for the enema training. Jelly or other lubricant may leave in the genitalia and cause defect inside.

MW26 11405-100 Basic Patient Care Simulator “KEIKO” is equipped with a stomach that allows confirmation of catheter placement during tube insertion for feeding.

4 Tube Feeding (Oral, Nasal, PEG)

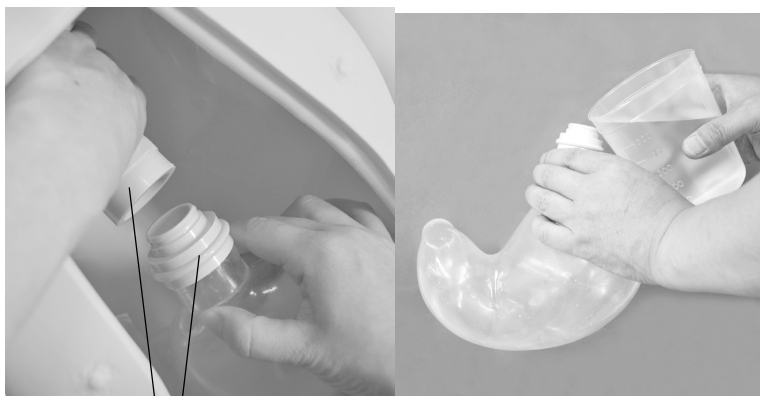
1. Remove the chest cover

Place the manikin in a semi-sitting position to allow water to be poured into the stomach. Lift the tab at the lower part of the chest cover and remove the chest cover. The connection between the esophagus and stomach will be visible.



2. Remove the stomach and fill it with water

Hold the one-touch connector between the esophagus and the stomach, remove the stomach, and fill it about halfway with water.



3. Close the chest cover

Following the removal procedure in reverse, align the upper part of the chest cover with the opening of the main body, and attach the chest cover. Preparation is now complete.



4 Tube Feeding (Oral, Nasal, PEG)

Perform the training with the manikin in a semi-sitting position. Insert the feeding catheter through the nasal cavity or oral cavity and confirm that the catheter has reached the stomach by listening for bubbling sounds with a stethoscope. The complete tube insertion for feeding procedure can also be performed, including injecting water as a substitute for formula and securing the catheter with tape.



- If the manikin is placed horizontally while water remains in the stomach, water may flow back into the oral cavity or trachea, or overflow from the mouth. Always perform training with the manikin in a semi-sitting position.
- Use a 12 Fr feeding catheter.
- Use the included Lubricant for Manikin.
- Do not use jelly-type lubricants or similar products, as they may dry, harden, and remain inside the manikin.
- When securing the catheter, we recommend using an adhesive elastic cotton bandage or dry surgical tape.

Before training, apply a sufficient amount of the included Lubricant for Manikin to both the catheter and the nasal cavity or oral cavity. Insufficient lubricant may make catheter insertion difficult.



Attach the gastrostomy tube to the opening in the abdomen.

Insert a syringe into the inflation valve of the gastrostomy tube and inflate the balloon with air.



Removing the chest cover after attaching the gastrostomy tube allows demonstration of how the gastrostomy tube is retained inside the stomach.

Practice gastrostomy care, including cleaning around the gastrostomy site.

4 Tube Feeding (Oral, Nasal, PEG)

《After Training》

1. Remove the tape securing the catheter, then remove the catheter.
2. Wipe off any remaining lubricant from the catheter, nose, and oral cavity using wet wipes or a soft cloth.



3. Remove the chest cover, disconnect the stomach from the esophagus, and remove the stomach from the main body. Discard the water.
4. After the stomach has dried completely, reconnect it to the main body and reattach the chest cover.

Do not store the manikin with tape attached. If tape is left attached for an extended period, adhesive may transfer to the surface of the manikin and leave a sticky residue.



Use a 12–14 Fr feeding catheter and a 20 Fr gastrostomy tube.
Use the included Lubricant for Manikin. Do not use jelly-type lubricants or similar products, as they may dry, harden, and remain in the catheter pathway, making removal difficult.

1 Airway suction (oral), tube handling for airway suction (nasal and tracheotomy)

Simulated sputum in the mouth can be suctioned by using oral cover.

*Simulated sputum is an optional part.

Tube handling for airway suction can be demonstrated for nasal way and tracheotomy.



Do not apply liquid to nasal way and tracheotomy.

Be sure to attach oral cover before applying simulated sputum in the oral cavity.

Catheter placement can be observed by opening the chest cover.



Tracheotomy



《Preparation》

1. Setting of the oral cover

1) Apply the lubricant to the back side of the oral cover to insert it to the mouth smoothly.



2) Fold the cover and insert it to the mouth



3) Seat the cover securely in the mouth.



2. Injecting the simulated sputum



Inject the simulated sputum by syringe little by little.



Oral cover can not be set when the dentures are set in the mouth.

1 Airway suction (oral), tube handling for airway suction (nasal and tracheostomy)

3. Setting of tracheostomy tube

- ① Take off the plug for tracheostomy.
- ② Apply the included lubricant to the tracheostomy tube then insert it to the hole.
- ③ Secure the tracheostomy tube.



*Special tracheostomy tube for KEIKO is available as an optional part.

12746-020 Tracheostomy Tube II

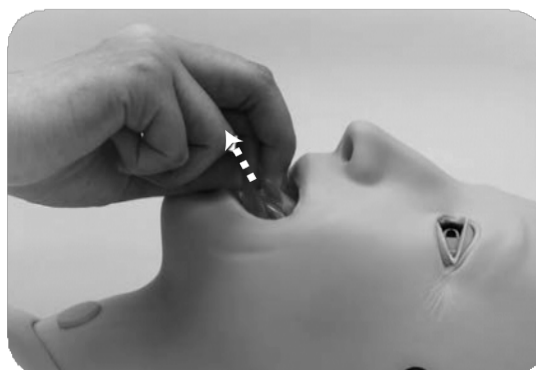
The cap at the tip receives the simulated sputum to realize suction training using liquid on KEIKO.



《After training》

1. Removing the oral cover

- ① Remove the oral cover slowly by the fingers.



.....
Set the oral cover more than 5 minutes before the training as the oral cover may be easier to move during the training session by new lubricant.
Wash the oral cover with the soap or neutral detergent after removing from the manikin. Store the oral cover after naturally dried, avoiding heat and humidity.

1 Airway suction (oral), Tube handling for airway suction (nasal and tracheostomy)

2. Removing the tracheostomy tube

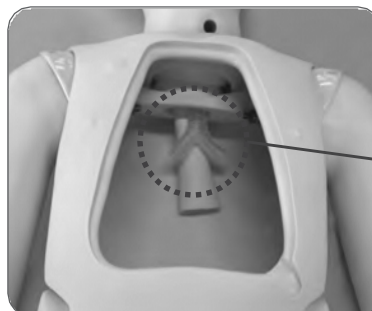
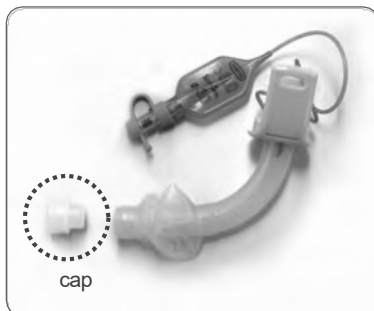
1) Remove the tracheostomy tube.



2) Set the plug to the tracheostomy hole.



At times the cap on the Tracheostomy Tube II may come off and left in the trachea. This is due to lubrication. When it occurs, open the chest cover and remove the cap through the opening of main bronchi. Then wipe the cap and replace it to the Tracheostomy Tube II.



2 Stoma care

Stoma care includes changing ostomy pouch is possible.

Using simulated feces allows more realistic training.



Simulated feces get hard when it dried. Store in the bag or sealed case. Simulated feces can be softened by adding some water for reuse.



1 Suppository

Use the optional simulated suppository to train suppository insertion.



《Preparation》

1. Make sure the rectal bottle is firmly tightened.
2. Use the included lubricant onto the hand and simulated suppository for the training. Simulated suppositories come in the rectal bottle when the procedure is successful.



《After training》

1. Remove the rectal bottle from the genitalia. Clean the rectal bottle, simulated suppositories and the genitalia. Store them after naturally dried.



Caution

.....
Use the included lubricant. Jelly or other lubricant may leave in the genitalia and cause defect inside.

2 Oxygen inhalation

An oxygen mask or a nasal cannula can be set to the manikin to simulate oxygen inhalation.



1 CV port

Basic care to the patient with CV port can be trained.

- Changing tapes
- Bathing or cleaning

《Preparation》

There is the needle hole to insert a Huber needle. Use 20G or 22G Huber needle for the manikin.

Can be secured by tapes.

《After training》

Remove the needle and tapes after the training.



.....
Do not mark by pens to the tapes or dressing material. Ink may transfer to the model and it is removable.

Use water for sterilization training instead of real antiseptic solution.

2 Postmortem care

Closing the eyelids and filling cotton into ears, eyes and the anus is possible.

《Closing the eyelids》

Pull the edge of the eyelid downward.

《Opening the eyelids》

Pull the edge of the eyelid upward.



.....
Do not fill too much cotton into ears, eyes and the anus.

The included Velcro tapes allow the manikin's arms to be positioned around the caregiver's neck with the fingers interlocked behind the neck, providing a realistic posture for transfer and mobility assistance training.

How to Wear the Velcro Tapes on KEIKO's Fingers

1. Attach the Velcro tapes to any two of the index, middle, and ring fingers.
2. Repeat the procedure on the other hand.
3. Interlock the fingers as shown in the photos below.



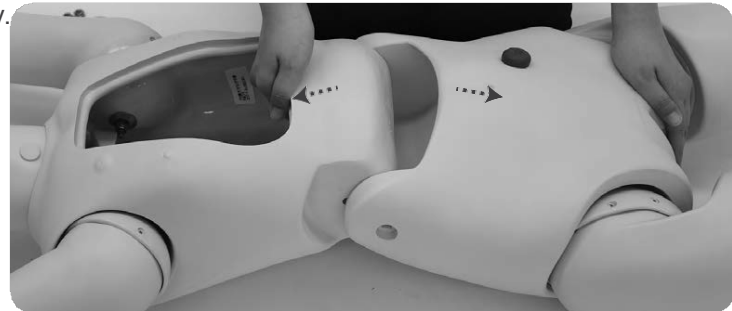
1 Dismantling the manikin

1. Open the chest cover and take off the bolts both side.

Loosen the 2 kinds of nuts by using the included screw wrench to take off the bolts from the manikin.



2. Separate the upper and lower body.



2 Storage

1. Wrap the lower body by the plastic sheet then store it to the bottom of the box. Insert the cushion under the knees.

2. Fix the lower body with the partitions.



2 Storage

3. Set the partition.



4. Cover the head and arms with the included plastic bags. Put the plastic sheet on the box and store the upper body.



5. Wrap the upper body with the plastic sheet.



6. Set the partitions then store the parts in the plastic bag both side of the head.



Caution

.....
Do not store the wig set on the manikin head. Store it in the plastic bag separately.



Caution

Don't mark on the model and other components with pen or leave printed materials contacted on their surface.

Ink marks on the models will be irremovable.

Consumable parts

code	name
11405-010	Female genitalia
11405-020	Male genitalia
11401-080	Denture
11229-060	Oral cover for suction
11229-050	Lubricant for manikin
11381-800	Lubricant for manikin (catheterization, enema and suppository insertion)



Female genitalia



Male genitalia



Denture



Oral cover for suction



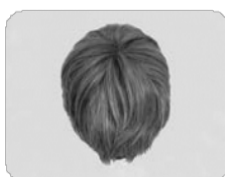
Lubricant for manikin



Lubricant for manikin
(catheterization, enema and
suppository insertion)

Optional parts

code	name
11404-030	Wig for hair care
11405-030	Pajama
12746-020	Tracheotomy tube II
11251-320	Simulated suppository set
11405-040	Simulated feces
11229-070	Simulated sputum



Wig for hair care



Pajama



Tracheotomy tube II



Simulated suppository set



Simulated feces



Simulated sputum

For inquiries and service, please contact your distributor or KYOTO KAGAKU CO., LTD.

The contents of the instruction manual are subject to change without prior notice.

No part of this instruction manual may be reproduced or transmitted in any form without permission from the manufacturer.

Please contact manufacturer for extra copies of this manual which may contain important updates and revisions.

Please contact manufacturer with any discrepancies in this manual or product feedback. Your cooperation is greatly appreciated.

■ Main Office and Factory (World Wide)

 **KYOTO KAGAKU co.,LTD**

WEB• www.kyotogagaku.com

E-MAIL• rw-kyoto@kyotokagaku.co.jp

15 kitane-koya-cho Fushimi-ku Kyoto 612-8388, Japan

TEL: +81-75-605-2510

FAX: +81-75-605-2519

■ North and South American regions:

 **KKAmerica**
Kyoto Kagaku America Inc.

WEB• www.kkamerica-inc.com

E-MAIL• info@kkamerica-inc.com

3109 Lomita Boulevard, Torrance, CA 90505-5108, USA

TEL: +1-310-325-8860

(Toll-free in North America: 877-648-8195)

FAX: +1-310-325-8867