⚠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.

NW8

Tube Feeding Simulator
(NG, OG and PEG)

Instruction Manual

Contents

KYOTO KAGAKU co.,LTD

Introduction

Manufacturer's note

This Tube Feeding Simulator (MW8) is a task trainer for Tube Feeding (Intranasal, Oral and PEG) skills in medical and nursing settings.
This simulator is designed for training in medical and nursing education.

Read the instruction carefully before use.

Any other use, or any use not in accordance with the enclosed instructions, is strictly discouraged. The manufacturer cannot be held responsible for any accident or damage resulting from such use. Should you have any questions on this simulator, please feel free to contact our distributor in your area or KYOTOKAGAKU at any time. (Our contact address is on the back cover of this manual)

● Features

- Training of catheter insertion and administration of nutrients in Fowler's position.
- Confirming the placement of the feeding tube or PEG tube by auscultating epigastrium and aspirating stomach fluid (water).
- Transparent body allows to see anatomically correct internal structure and if the catheter catheter advances in the right route.
- Actual nutrition solution can be used for training.

⚠ DOs and DON'Ts

DOs

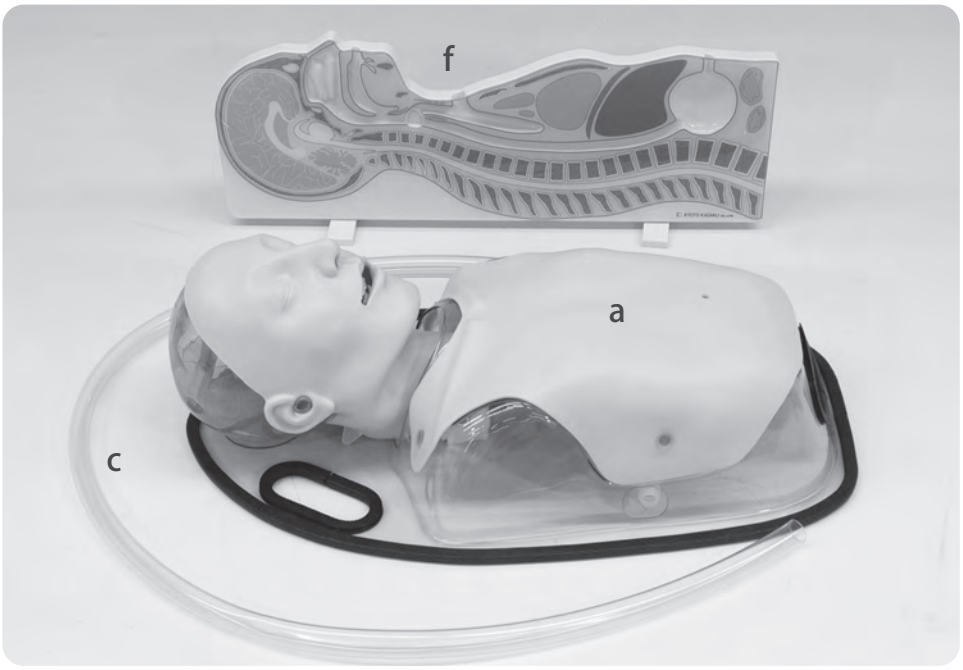
- Handle the manikin and the components with care.
- Talcum powder may be used on the manikin after use to preserve suppleness of the skin and prevent it from being stained.
- Storage in a dark, cool space will help prevent the skin colors from fading.
- The manikin skin may be cleaned with a wet cloth, if necessary, using mildly soapy water or diluted detergent.

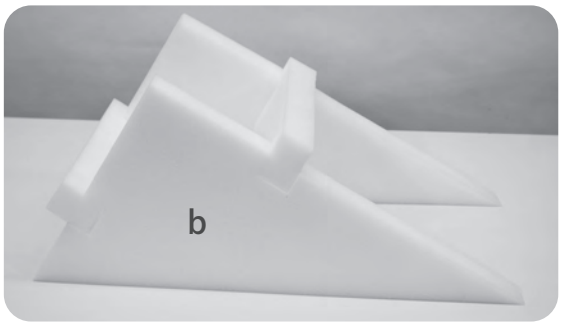
DON'Ts

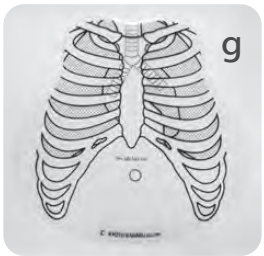
- Do not let ink from pens, newspapers, this manual or other sources come in contact with the manikin, as they cannot be cleaned off the manikin skin.
- Never use ethanol or organic solvent like paint thinner to clean the skin, as this will damage the simulator.

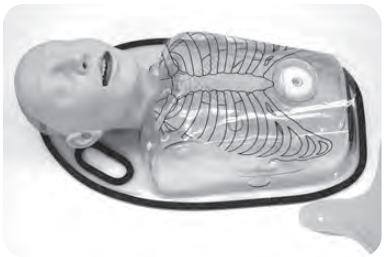
Set Includes

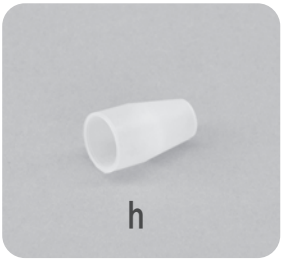
Before your first use, ensure that you have all components listed below.









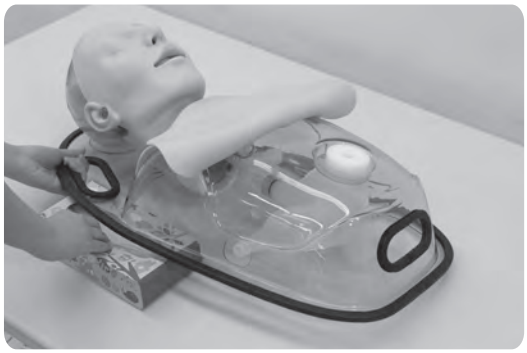
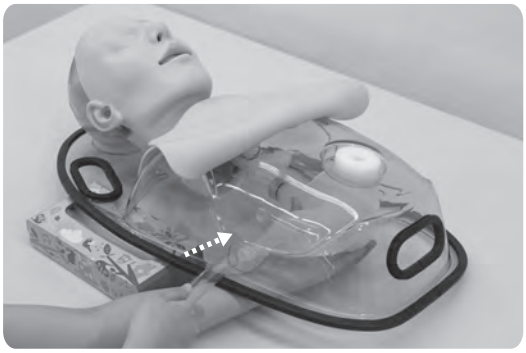
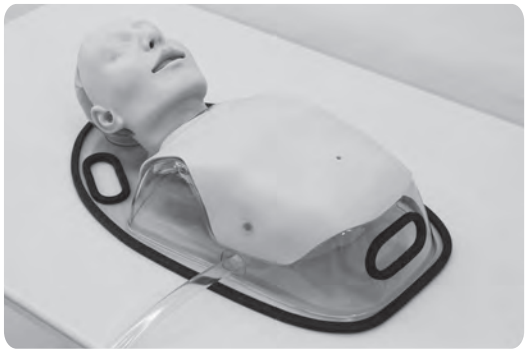


a. Male Torso	1 piece	f. Tube Feeding routes model	1 piece
b. Support Base	1 piece	g. Tube Feeding chest sheet	1 piece
c. Drain Hose	1 piece	h. Plug for drain port	1 piece
d. Funnel	1 piece	Silicone-based lubricant	1 piece
e. Plastic cup	1 piece	Guide book	1 piece

1 Training on the bed

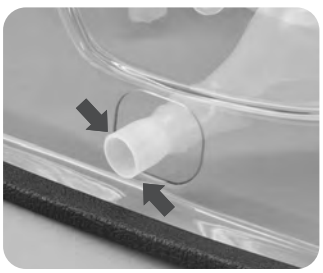
1.Connect the drain hose to stomach parts of the torso model.

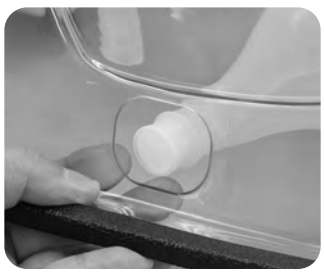
1) Remove the skin from the body in order to see the stomach parts inside.
2) Hold the right side of the torso and put something (e.g. tissue box) between the left edge of the frame and the table.
3) Connect the drain hose to stomach parts steadily.

In case training requires to keep the level of water in the stomach and does not require feeding liquid formula to the simulator, such as use of a bumper type PEG tube or training of confirmation of NG tube placement, close the drain port with the included plug instead of connecting the drain tube.

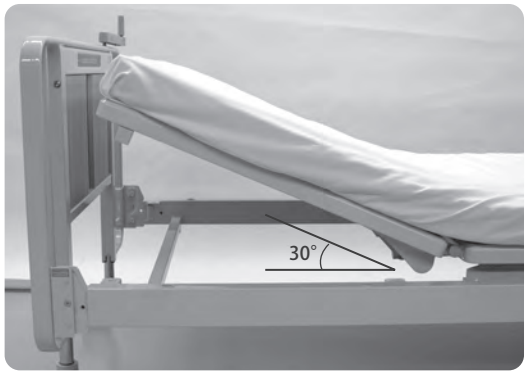

Insert the plug firmly into the drain port of the stomach.

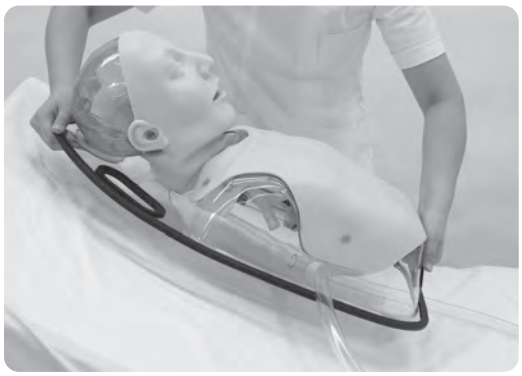

Turn up the rim of the plug.


Ready for training.

1 Training on the bed

2.Set the torso model on the bed reclined 30 degree.





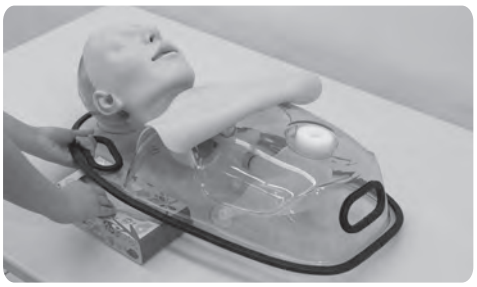
3. Put the end of the drain hose into the bucket.

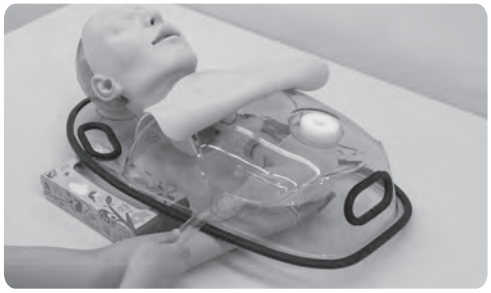
4. Fill the water in the stomach. Insert the funnel into PEG hole and fill about 300cc water. Attach the skin on the model.

2 Training on the table

1.Connect the drain hose to stomach parts of the torso model.

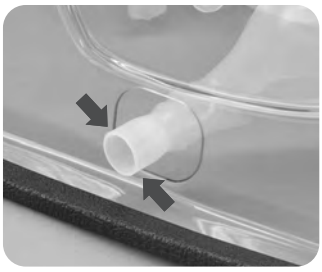
1) Remove the skin from the body in order to see the stomach parts inside.
2) Hold the right side of the torso model and put something (e.g. tissue box) between the left edge of the frame and the table.
3) Connect the drain hose to stomach parts steadily.



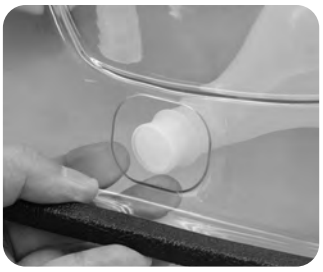


In case training requires to keep the level of water in the stomach and does not require feeding liquid formula to the simulator, such as use of a bumper type PEG tube or training of confirmation of NG tube placement, close the drain port with the included plug instead of connecting the drain tube.

Insert the plug firmly into the drain port of the stomach.

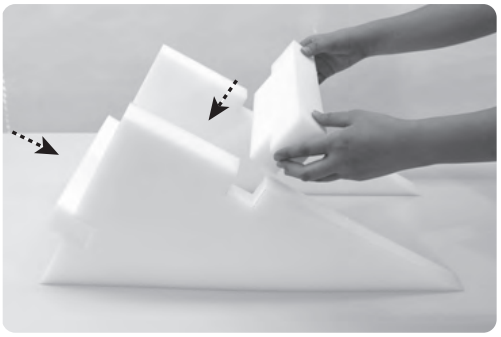


Turn up the rim of the plug.

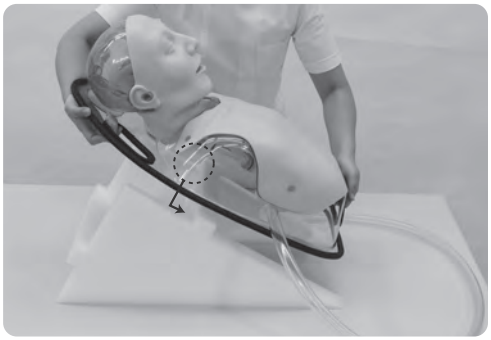


Ready for training.

2.Assemble the support base.



3.Set the model on the support base.

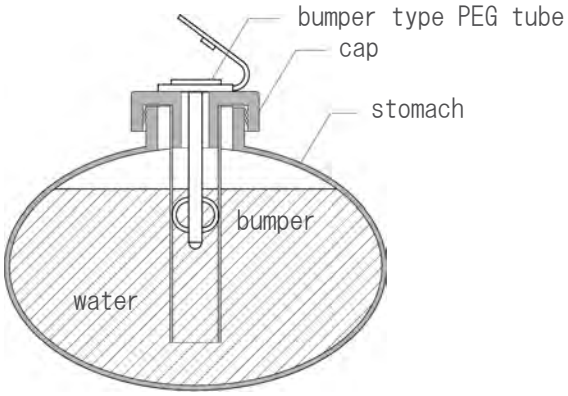


2 Training on the table

4. Put the end of the drain hose into the bucket.

5. Fill the water in the stomach.
   1) Insert the funnel into PEG hole and fill about 300cc water.
   2) Attach the skin on the model.

When using a bumper type PEG tube and seeking to confirm its placement, use the plug for the drain port of the stomach and fill the stomach with water till the bumper is submerged.



1 Intranasal tube feeding

1.Inserting catheter

Spray silicone-based lubricant onto the catheter and into the nasal cavity.
Shortage of lubricant will cause difficulties in inserting the catheter. Do not use gel lubricants or other types because they will dry and remain in the simulator.

⚠ Caution

We recommend 14 Fr catheters for this simulator. Larger catheters will result in unsuccessful insertion.
In this simulator, catheter will reach the stomach after 50cm insertion.

2.Training the fixation of the catheter with tape

⚠ Caution

Do not leave the tape on the skin of the simulator. If the tape is left adhered for a prolonged period of time, the skin surface will remain sticky from adhesive of the tape.

If you fix the catheter with tape, do not start to inject the nutrient solution immediately as the tape is still easy to come loose. Wait for a few minutes until the tape will be tightly fixed.

2 PEG procedure

1. Fixing PEG catheter

Fix the balloon catheter for PEG with about 5ml air. Do not use water or any liquid.

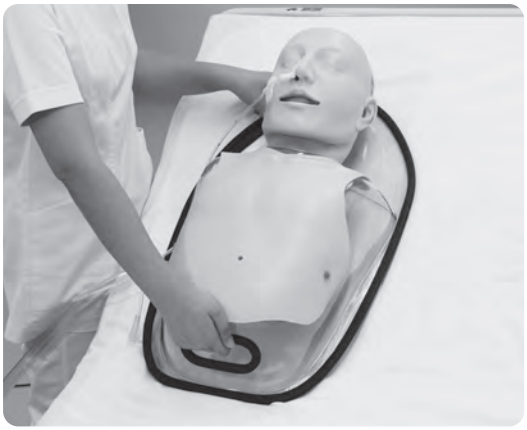
(＊5 ml is the guide value for the recommended balloon catheter for PEG "NIPRO 20Fr PEG button catheter". For other catheters, fill the amount of air which is sufficient to anchor the catheter to the PEG hole.)

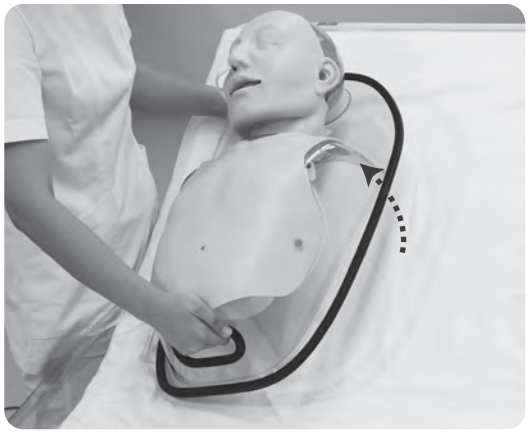
3 After injecting the nutrient solution

1. After injecting the nutrient solution

In case of intranasal tube feeding and PEG procedure, drain the content from the stomach for each injection of a package of nutrient solution.

1) Move the torso to the edge of the bed.
2) Hold the torso with both hands and tip it to drain the content.
3) Remove the skin and pull out the PEG catheter.
4) Refill the stomach with 300cc water for the next training.





After Training

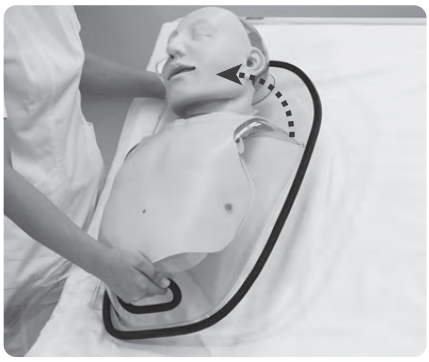
1 Drain the content from the stomach

Drain the content from the stomach after the training.

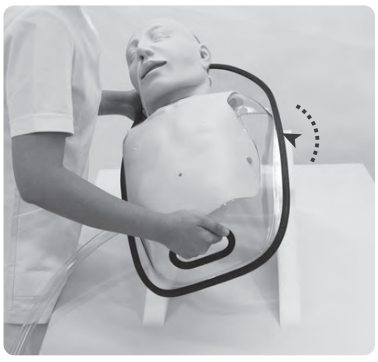
1) Move the torso to the edge of the bed or table.

2) Hold the torso with both hands and tip it to drain the content.

(Training on the bed)

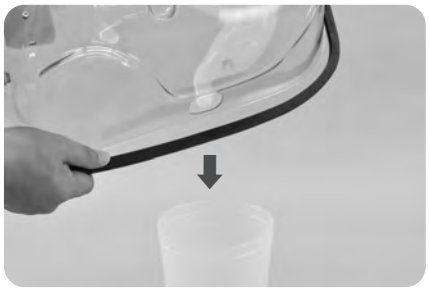


(Training on the table)



After training that uses the plug for drain port

Lift the side of drain port and pull and remove the plug upwards, while taking care not to spill water. Then tilt the torso above a container to discard the water from the stomach. Be careful that the discarded water won't flow out of the caching container through the edge guard of the plastic frame.



⚠ Caution

Be careful not to slip or drop the torso when lifting and tilting it. Use its two handling holes.

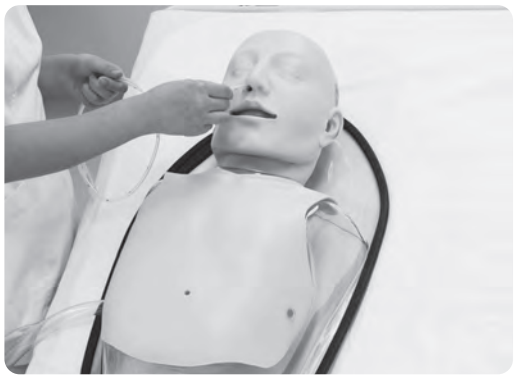
After Training

2 Cleaning the catheter

Before pulling out the catheter, clean the catheter and tube.

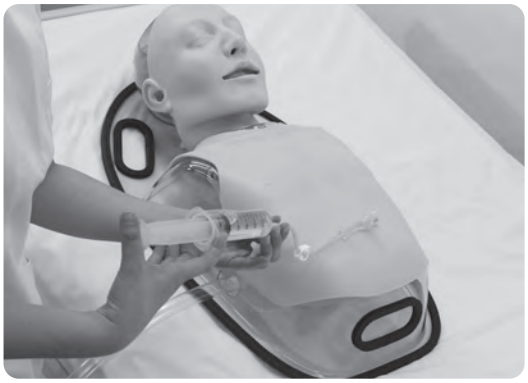
(NG tube)

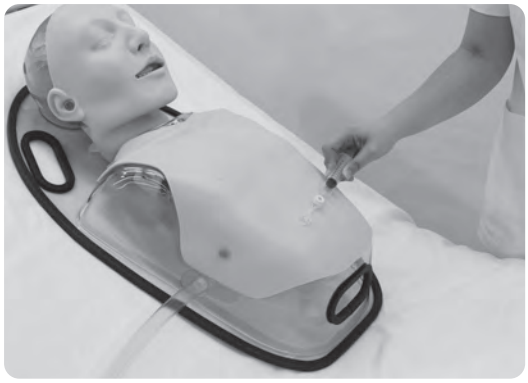
Inject mildly hot water to the NG tube with a syringe and clean the inside of the catheter. Then, pull out the NG tube from the torso.



(PEG catheter)

Inject the mildly hot water to the PEG catheter with a syringe to clean the inside of the tube and catheter. Then, pull out the PEG catheter or tube from the torso.





⚠ Caution

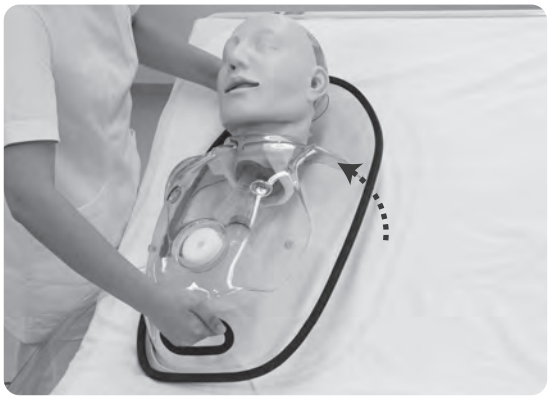
In case of a fixed PEG catheter, insert the syringe to the catheter valve and remove the air. Then pull out the PEG catheter carefully from the torso.

After Training

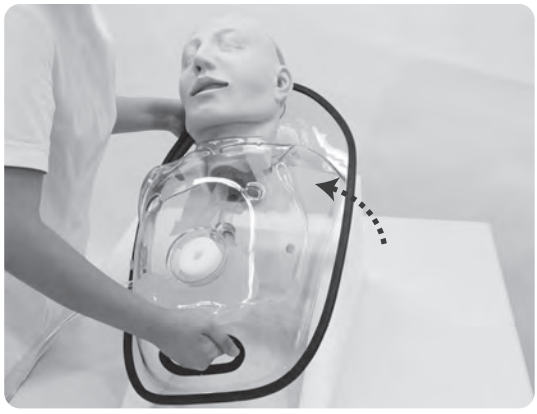
③ Cleaning the stomach and remove the drain hose

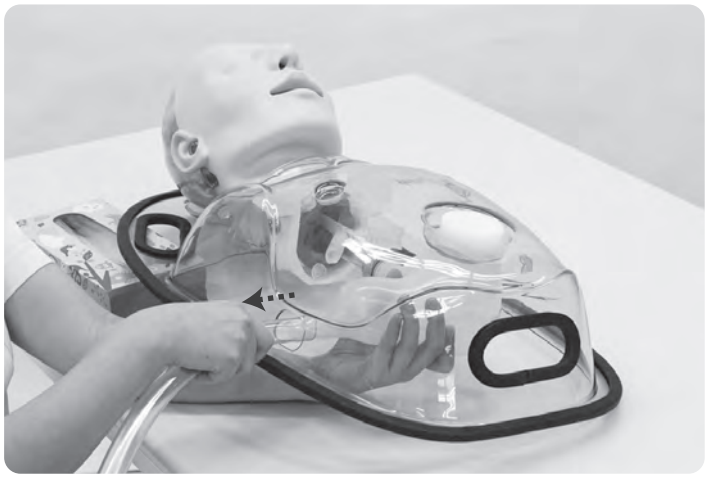
After the catheters are removed, clean the stomach with mildly hot water. Repeat cleaning the stomach until the water doesn't include nutrient solution anymore. Then, remove the hose from the stomach part.

(Training on the bed)



(Training on the table)





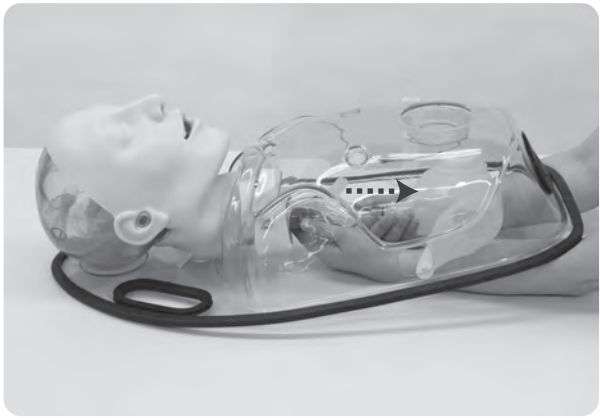
* Removing the stomach part is easier on the table than on the bed.

After Training

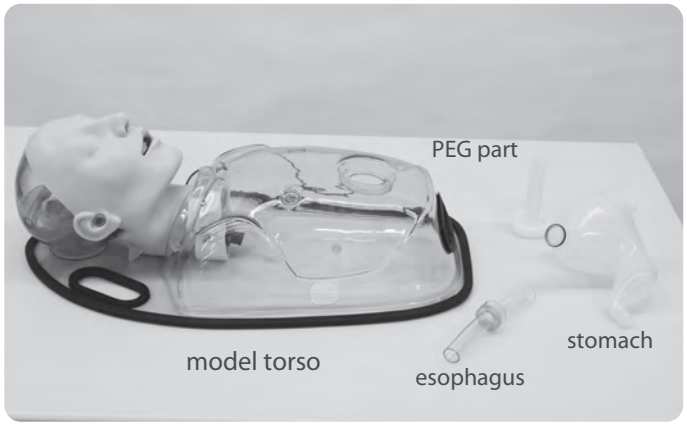
4 Dismantling the parts

1. Dismantle the stomach by twisting the PEG part counterclockwise.


2. Hold the cervical part from under the model and pull the esophagus from cervical part.



3 .Remove the esophagus from the stomach.

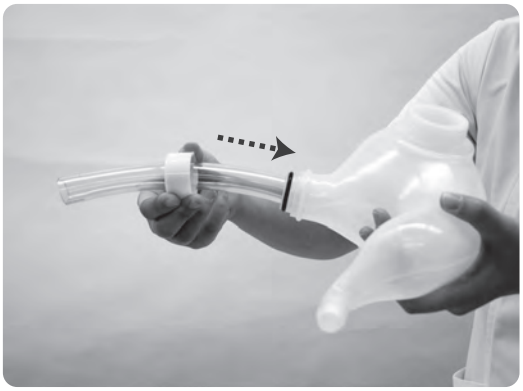
Cleaning

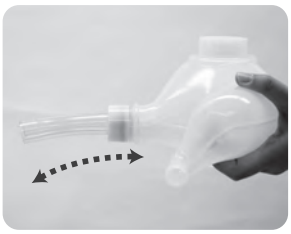
Wash and dry well the stomach and all other parts. Clean the stomach part with sodium hypochlorite if it is necessary. (Follow the instruction of the antiseptic for how to use it)

After Training

5 Setting the parts

1. Attach the stomach with esophagus as shown in the pictures below.





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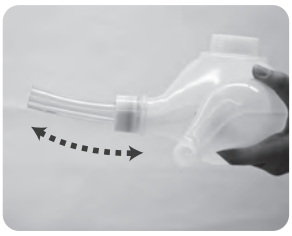

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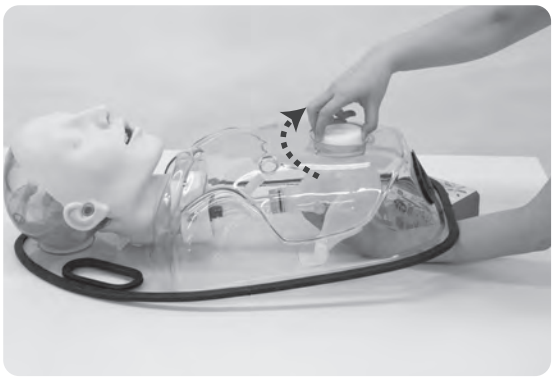
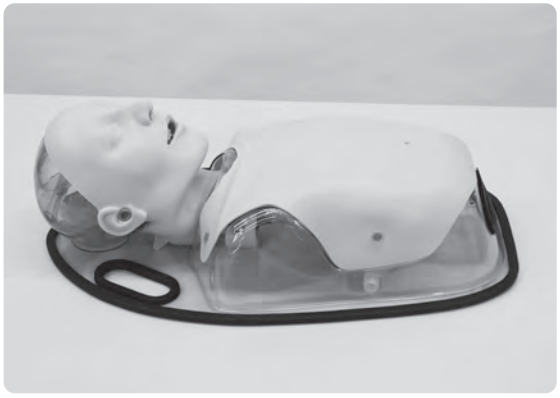
2. Insert the esophagus into the cervical part steadily. Then attach the PEG part to the stomach by twisting it clockwise.



3. Put the skin on the model.



Trouble shooting

Quick check-up before calling the customer service. Use the table if you have problems using the simulator. Look in this section for a description of the problem to find a possible solution.

FAQ s

Q. Cannot insert the catheter.

A1. Catheter size may be larger than the recommend size.
Use 14Fr catheter for NG and Oral, 20Fr for PEG.
A2. Lubricant may not be sprayed on catheter and nasal passage.
Spray the lubricant (Silicone-based lubricant) to catheter and nasal passage.

Q. Cannot hear the bubble sound in the stomach.

A1. There may be no water in the stomach.
Fill 300cc water in the stomach.

A2. Balloon catheter is not fixed at PEG hole.
Fix the PEG catheter by adding air into the balloon.

A3. The esophagus part is not fixed in the correct angle.
Confirm the esophagus attachment (page 14).

Q. Cannot aspirate stomach fluid.

A1. NG tube/Balloon type PEG:
There may be no water in the stomach.
Fill 300cc water in the stomach.
A2. Bumper type PEG:
Level of water in the stomach is low.
Add water until the bumper is fully submerged.

Q. Aspirated stomach fluid is muddy.

A1. There may be no water in the stomach.
Drain the content from the stomach after each injection of a package of nutrient solution. Then fill 300cc water.

Q. Cannot remove the pollution of the stomach and drain tube.

A1. The nutrient solution was not removed during the last cleaning and is polluted by bacteria. Replace the stomach and/or drain hose with new ones.

⚠ 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.

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

■ **Main Office and Factory (World Wide)**

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