

⚠ Caution | Do not mark on the model and other components with pen nor leave printed materials contacted on surface. Ink marks on the models cannot be removed.

MW29

Oral Care Simulator Advanced

Instruction Manual



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MW29 Oral Care Simulator Advanced is designed for training of health care professionals to acquire skills in taking care of patients' oral hygiene.

Usage for any other purpose or the way of use not described in this manual is strongly discouraged.

Features

- Anatomically correct oral cavity, trachea, esophagus and replaceable dentures,
- Two variations of dentures: normal (healthy) and teeth with disease
- A variety of patient positioning
- Training with real water



DOs and DON'Ts

● **Handle the manikin and the components with care.**

Be sure not to drop or add shock to the manikin and its components, since the product uses special resins and heavy, such shock may cause damage to the products or environment.

● **Never use organic solvent like paint thinner to clean the skin, as this will damage the simulator.**

● **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.**

● **The manikin skin may be cleaned with a wet cloth if necessary, using mildly soapy water or diluted detergent.**

● **Storage in a dark, cool and dry space will help prevent the skin colors from fading and product from deforming**

● **Even if color on its surface might be changed across the ages, this does not affect the quality of its performance.**

● **Use clear water for training.**

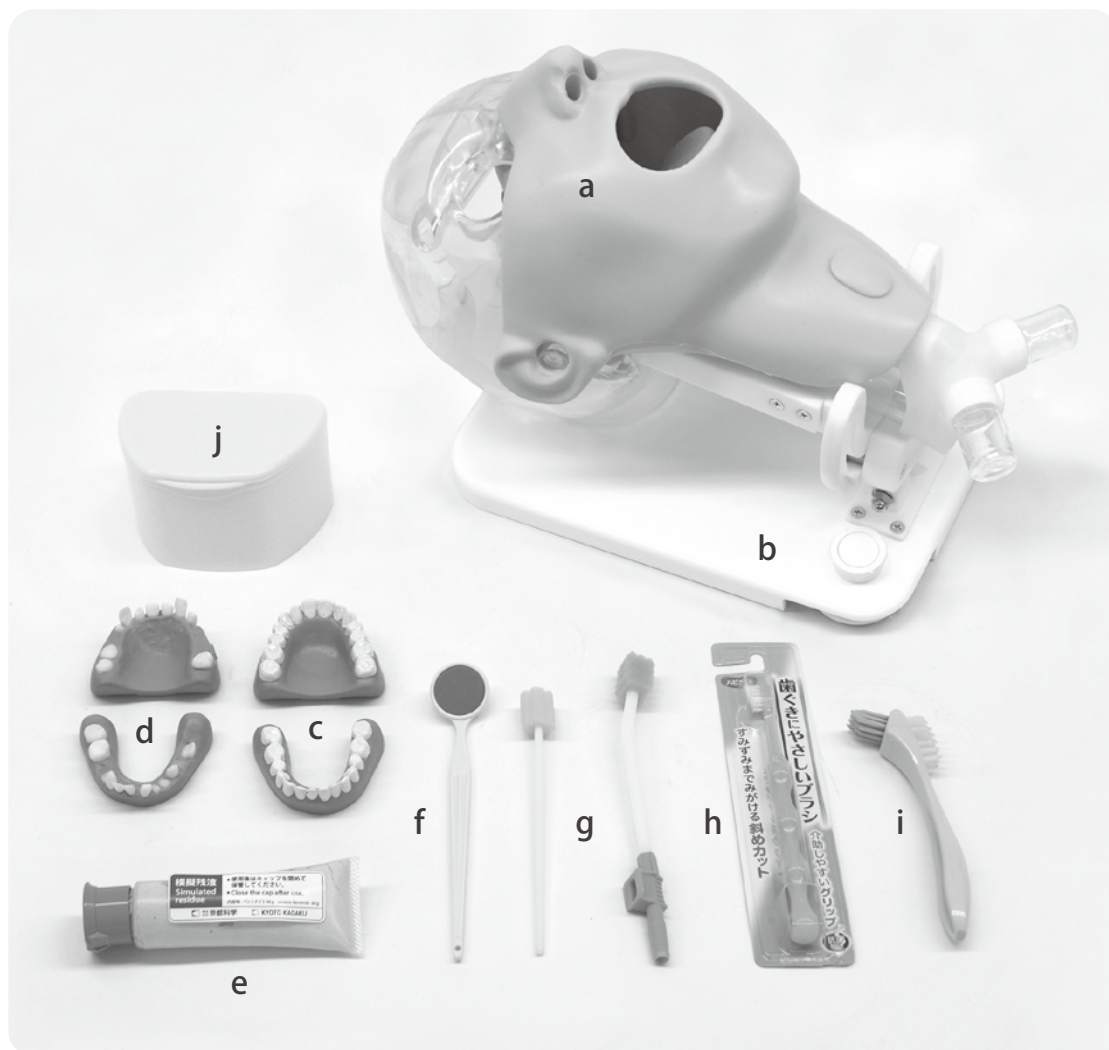
Do not use real antiseptic or medicine as it may stain intraoral cavity and absorbed color will become irremovable.

● **Constituent in the simulated residue may separate.**

At times some constituent in the simulated residue, such as alcohol may be observed, though this does not affect the quality and performance of the product.

Set Includes

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

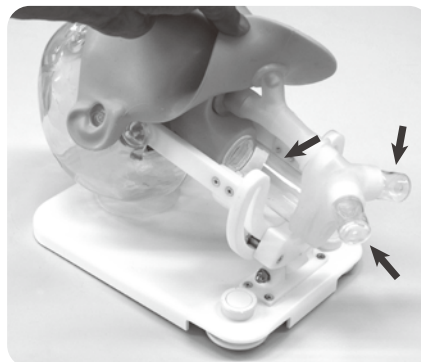


- | | | | |
|-------------------------------------|---|------------------------------|---|
| a. Head/neck manikin | 1 | g. Sponge-tipped swabs | 2 |
| b. Base | 1 | h. Toothbrush | 1 |
| c. Normal denture | 1 | i. Denture brush | 1 |
| d. Denture with tooth disease | 1 | j. Case for denture | 1 |
| e. Simulated residue | 1 | Instruction manual | |
| f. Mirror | 1 | | |

* Simulated residue is consumable.

1 Checking the Connections

1. Take out the head/neck manikin and the base from the carrying bag. The head/neck and base is assembled at the time of delivery. Verify that two mini bottles for trachea and one mini bottle for the esophagus are firmly attached.



2 Setting up the Head Manikin

- Table top training. (Prepare a table with smooth surface.)

[Securing the Head/Neck Manikin]

1. Remove the seals on the suction caps under the base.
2. Select the place where to set the head manikin and put it there. Press down the suction cup at the head side onto the table top. Then turn the two dials at the neck side clockwise to anchor.



3. To disengage, release the suction cup at the head side by lifting up the plate with finger, and then turn the dials counter clockwise to release remaining suction cups.



* Dirt and dust on the surface of the suctioning cups weaken their holding power. Clean their surface before setting-up.

2 Preparation

[Positioning]

○ Table top training

1. To set the manikin at Fowler's position or sitting position, put a pillow or a towel to secure the head in desired place.



Spine



Fowler's



Sitting

2. Rotate the head to left or right to adjust the position.



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To rotate the head, be sure to hold the head with both hand. Be careful not to hold the neck area, so as not to pinch the fingers.

○ Training on the bed.

1. Put the manikin on the bad and adjust the bed's angle. Support the manikin securely in place by a pillow or by an assistant when necessary.



3 Changing Dentures

[Setting-up Dentures]

The set includes normal dentures and dentures with tooth disease. Select the parts according to training scenario.



Dentures (Normal)



Tooth Disease

1. To attach the denture, fit the groove at the back to the teeth to the gum and press the denture. When setting the upper denture, first fix the front teeth and then fit the back teeth.



To attach the lower denture, first put the denture in place to surround the tongue, then press down the front teeth and finally fit and press the back teeth.



Caution

Be careful not to catch the manikin's tongue under the denture. Do not lubricate the surface of the dentures as it makes removal of dentures difficult.

[Removal]



2. To remove the dentures, first lift and disengage the back teeth.

4 Setting of Patient Conditions

[Patient with Endotracheal Tube]

Place the endotracheal tube in the manikin's airway to simulate a patients receiving ventilation.

1. Be sure to coat the tube with lubricant.
Insufficient lubrication may cause challenges in insertion of the tube.

*Be sure to use authentic Kyoto Kagaku lubricant.
** Recommended size on endotracheal tube: internal diameter 7.0mm



Note

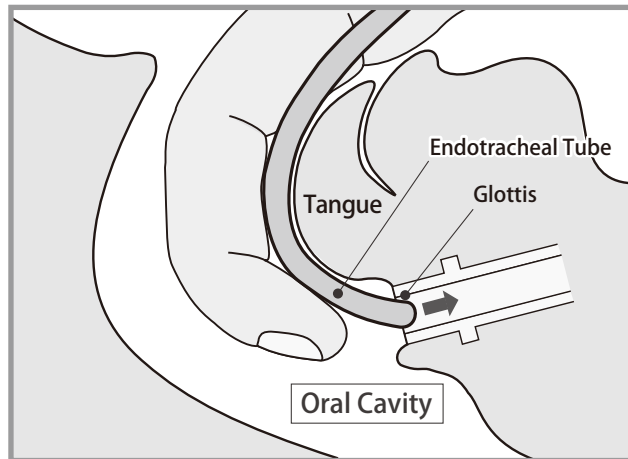
.....
Training of intubation is not intended. The endtracheal tube can be set by hand without using the laryngoscope or stylet.



2. Remove the dentures. Insert the finger into the manikin's oral cavity and feel to locate the glottis.

3. Insert the endotracheal tube into the airway. Insert the tip of the tube into the glottis by the finger.

4. Holding the tube with the finger, insert the tube into the airway.



[Securing the Tube]

The tube can be secured using adhesive medical tapes.

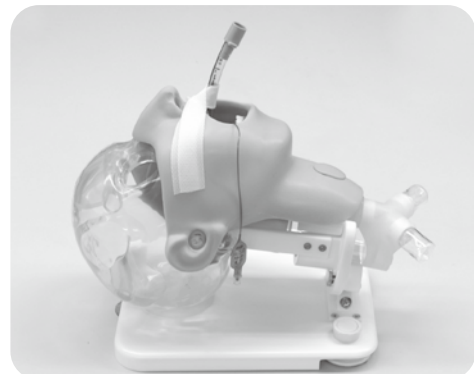
Recommended taps

: 3M™ Multipore Dry Surgical Tape™.



Caution

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Do not leave the manikin with tapes adhered on its skin. The adhesive materials may be absorbed by skin and make it sticky.



4 Setting of the Patient Conditions

[Patient receiving tube feeding]

Placing a feeding tube in nasal or oral route to simulate a patient with tube feeding.

1. Lubricate the catheter route and the tube well. Insufficient lubrication may make the insertion challenging.

* Recommended catheter size: 14fr.

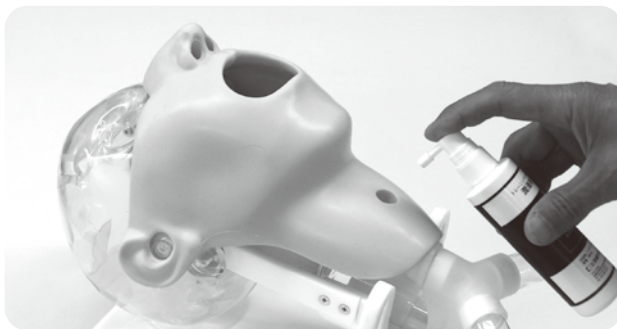


[Patient with tracheostomy]

Place the cannula to the tracheostomy opening to simulate a patient with tracheostomy ventilation.

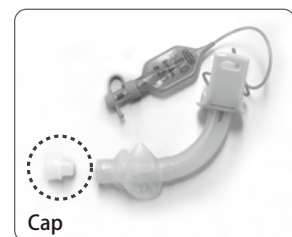
1. Remove the plug for the tracheostomy opening. Lubricate the tube and the inside of trachea.

* Since the tracheostomy opening is already made, at times some types or sizes of cannula may not fit well. Tracheostomy Tube II (internal diameter 8.0mm, external diameter 11.0mm) is available as an optional part.



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Be sure to use the authentic Kyoto Kagaku lubricant for training, which is available as an optional part. Do not use gel type lubricant as its substance dries and remain in the manikin.

Sometimes, the cap of the Tracheostomy Tube II may come off due to lubrication and left in the airway. When it occurs wipe off the lubricant and/or water both from the cap and inside of the tip of the cannula and then replace the cap.



1 Oral Care

[Observation of the Oral Cavity]

- A patient with teeth/ oral problems

1. Set the denture with tooth disease to perform observation of the oral cavity.

Dental and Oral Problems

Tooth Disease

- Spaced arch
- Food Residue
*Apply the simulated residue
- Coated tongue
*Apply the simulated residue
- Crowding
- Gingival Recession
- Missing teeth
- Stomatitis
- Isolated tooth
A tooth without neighboring teeth
- Root fracture
- Stump of a tooth
A stump without dental crown

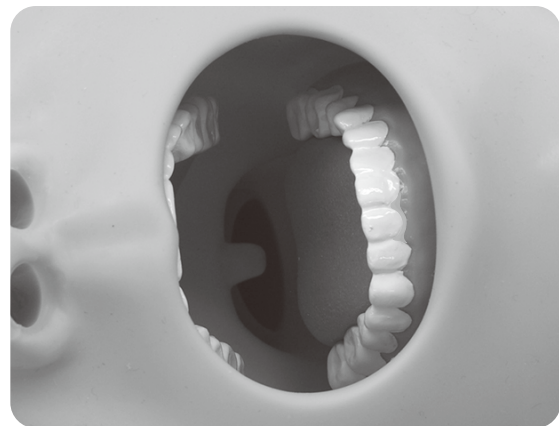
Normal

Legend:
 Dental Problem
 Non-Dental Problem

[Observation of the Oral Cavity]

- Observation of food residue and coated tongue.

2. Apply the simulated residue on the teeth and/or the tongue to perform observation.



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 Whenever not in use, ensure to close the cap of the tube of the simulated residue to prevent drying.

1 Oral Care

[Cleaning of the Oral Cavity]

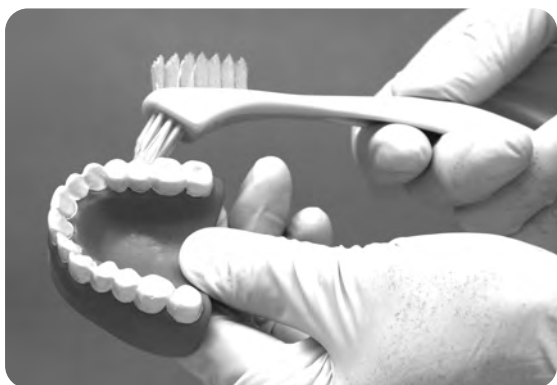
1. Set the head manikin to simulate positions of patients with different degree of requirements for assistance. Set instruments to simulate patients under medical intervention. Apply the simulated residue to practice brushing and cleaning.



2. After brushing and cleaning, apply water (wash fluid) to the oral cavity and clean while suctioning excess liquid.



[Care of the Dentures]



1. Practice how to remove and attach dentures as well as how to clean the dentures using the denture brush.



Caution

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Do not use tooth paste as it may damage the parts.

1 Oral Care

[Removal of Tongue Coating]

1. Apply the simulated residue on the tongue to practice cleaning using a sponge brush or a tongue brush.

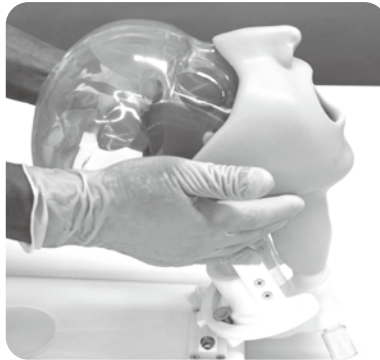


[Massaging]

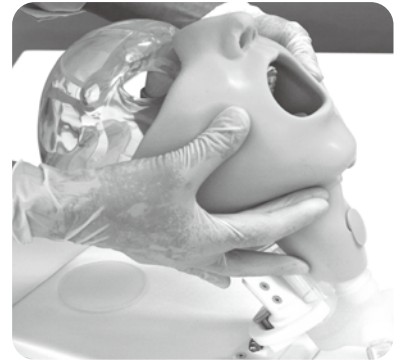
1. Practice how to perform salivary glands massage to stimulate secretion.



Parotid Gland



Submaxillary Gland

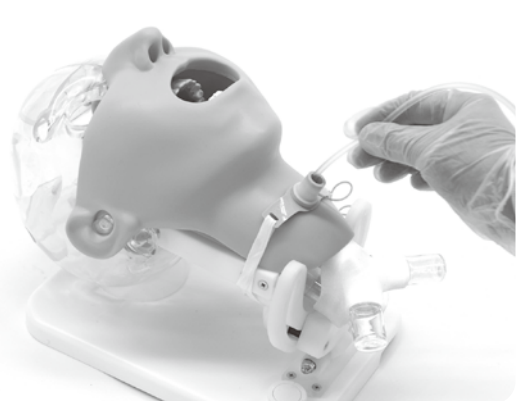


Sublingual Gland

2 Suction

[Suctioning]

1. Procedures of nasal, oral and tracheostomy suction can be simulated.



After Training

1 After Training

1. Remove all medical instruments, medical tape and the dentures (see page.5).

In case that the simulated residue is used, remove it completely and dry the parts well.



2. Remove the two screws which connect the head manikin and the base by turning counter-clockwise. Then remove the head manikin from the base.



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Be careful not to misplace the screws.

3. Remove the mini bottles by turning clock-wise. Then wash and dry the bottles.



After Training

1 After Training

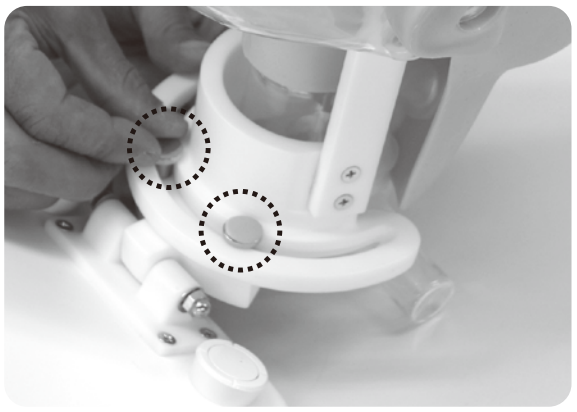
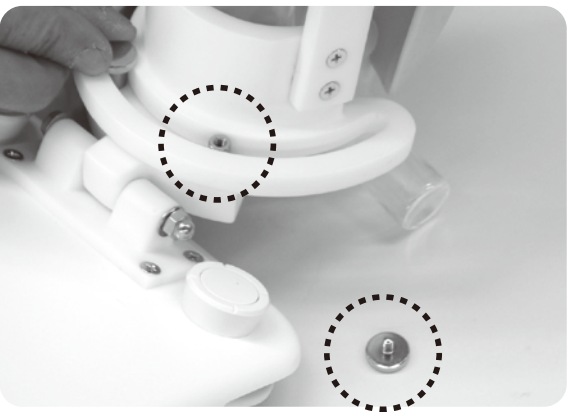
4. Remove the plug for tracheostomy opening. Wash inside with running water. Then dry the parts well



5. Replace the mini-bottle and the bottle.



6. Assemble the head manikin and the base and fix them together with two screws. Turn the screw clockwise to fasten. Then replace the plug to the tracheostomy opening.



7. Store the assembled head in the storage bag.



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Consumables

	Part Name
11408-010	simulated residue
11408-020	normal denture
11408-030	denture with tooth disease



Simulated Residue



Normal Denture



Denture with Tooth Disease

Optional Parts

	Part Name
11229-050	lubricant for training model
12746-020	tracheostomy tube II



Lubricant for Training Model



Tracheostomy Tube II

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

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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.

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