



Caution | Do not mark on the model and other components with pen or leave any printed materials contacted on surface. Ink marks on the model cannot be removed.

MW21B

NCPR Simulator Plus II

Instruction Manual

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Movie Site



English Site

Manufacturer's Note

• Features

Provides training in regards to the routine procedure for umbilical catheterization for both the operator and assistant.

Omphalotomy/ Catheter insertion/ Ligation with clip or string/ Placement

Model provides training for three types of punctures and catheterization procedures.

Landmark palpation access/ Transilluminator access

The simulator is designed for training in neonatal care. Do not use for improper purpose.

Please read the instruction carefully before use.

Do not use the system in a way other than here in after prescribed by manufacturer.

• Training Skills

- Training Positioning Keeping/ Assessment of Anterior Fontanel
- Intravenous Injection/Puncture
- Central Venousline Catheterization
 - Landmark Palpation/ Transillumination
- Umbilical Catheterization
- NG/OG Tube Feeding
- Airway Suction
- CPR
- Airway Management

DOs and DON'Ts

DOs

Handle the manikin and the components with utmost care at all times.

Storage in a dark, cool space will help prevent the skin colours from fading.

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

DON'Ts

Do not mark on the model and other components with pen or leave any printed materials contacted on surface. Ink marks on the model cannot be removed.

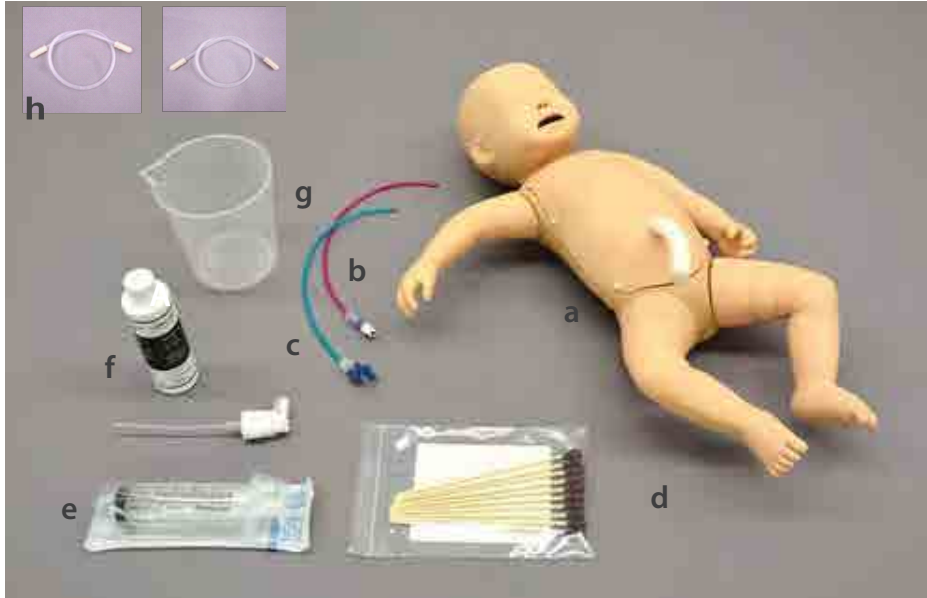
Never use organic solvent like paint thinner to clean the skin, as this will damage the simulator.

Do not leave the tapes or dressing materials onto the manikin as the adhesive left on the surface will become sticky.

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

Set Includes

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



- | | | |
|---------------------------------------|-------------------------------|----------------------|
| a Neonatal model * | e Syringe | Instruction manual |
| b Simulation blood tube (Red) | f Lubricant | |
| c Simulation blood tube (Blue) | g Plastic jar | |
| d Simulation blood (swab type) | h right arm vein(28cm) | right leg vein(32cm) |

Configuration

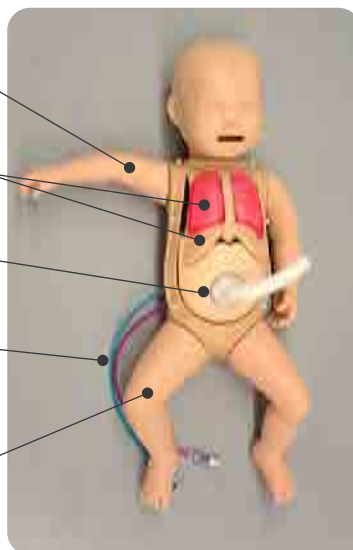
Arm for puncture and catheter insertion

Ribs/Lung

Umbilical Cord/
Blood storage bottle

Simulation blood tubes

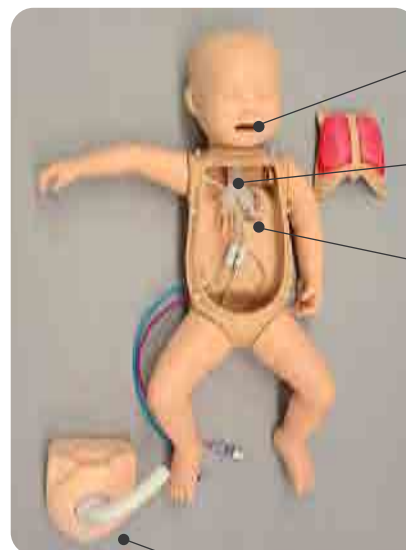
Leg for puncture and catheter insertion



Oral Cavity

Bronchi

Stomach/
Esophagus




Umbilical Cord Unit

1 Simulated Blood making

1. Pour 1000mL of water into the plastic beaker. Put the simulated blood (swab type) into the beaker and stir the water sufficiently to prepare the simulated blood. Draw the simulated blood to the syringe attached.



 Caution

.....
Take care not to drop simulated blood on clothes as simulated blood stains can be very difficult to remove.

2 Umbilical blood preparation

1. Remove the body skin. (The skin is fixed by six braces.)



2. Put out the umbilical blood bottle from umbilical part. Open it to fill with the umbilical blood. Install the umbilical bottle into the umbilical part.



2 Umbilical blood preparation

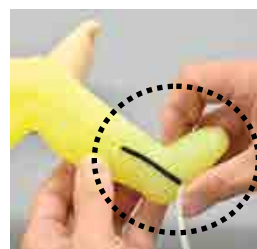
3. Put the umbilical part in the body, and the lung and rib on it. Cover the model with the body skin. Put the umbilical cord through the body skin hole first, and put the body skin on the body to fix by six braces.



3 Installation of veins

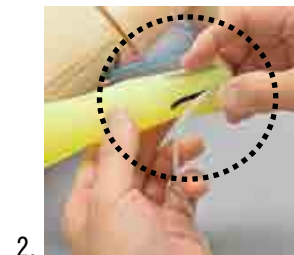
Installation the vein tube of the right leg

1. Remove the leg skin from its femoral side.
2. Insert the tip of the tube to one of the connectors. Fit the tube in the channel on the surface of the internal leg part. Then set the tube circulating the sole of the foot.
3. Insert the other end of the tube firmly to the remaining connector.
4. Put the skin over the internal part of the leg. If it is difficult to put it, apply some talcum powder to the whole leg and the inside of the skin.



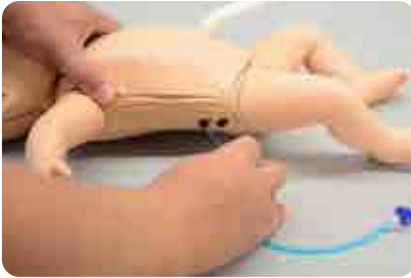
Installation the vein tube of the right arm

1. Remove the arm skin.
2. Insert the tip of the tube to one of the connectors. Fit the tube in the channel on the surface of the internal arm part. Then set the tube circulating the hand.
3. Insert the other end of the tube firmly to the remaining connector.
4. Put the skin over the internal part of the arm. If it is difficult to put it, apply some talcum powder to the whole leg and the inside of the skin.



4 Installation of Simulated blood tube

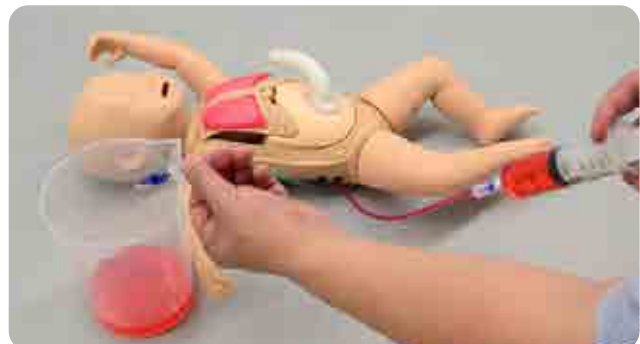
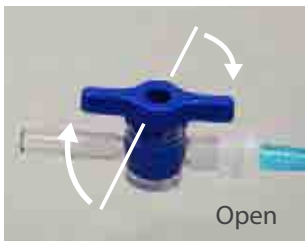
1. Install the simulated blood tube (blue) to the connector of arm side on the right side of the body. Install the red one to the other connector (on leg side).



2. Finished.

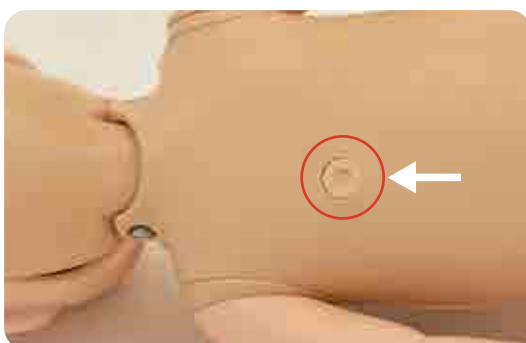
5 Injection of the Simulated Blood

1. Connect syringe to the red tube to inject the simulated blood, and open the blue cock on the tip of blue tube. Put the tip of blue tube in the plastic jar, and keep injecting the simulated blood until the blood ejects from the blue tube. Close the blue stop cock and remove the syringe when finished.



6 Injection of the Stomach Fluid (Water)

1. Connect the syringe to the connector at the back of the body to inject the stomach fluid. The volume is approximately 5ml. Remove the syringe when finished.



1 Training Positioning keeping/ Assessment of Anterior Fontanel

Training for the position keeping and changing



Palpating to assess the anterior fontanel



2 Intravenous Puncture/ Central Venousline Catheterization

● Landmark Palpation

Training for the procedure from the puncture to catheter insertion.



● Transillumination

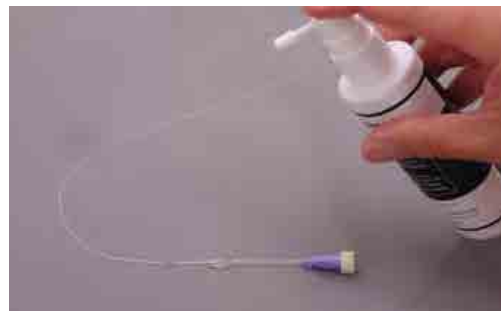
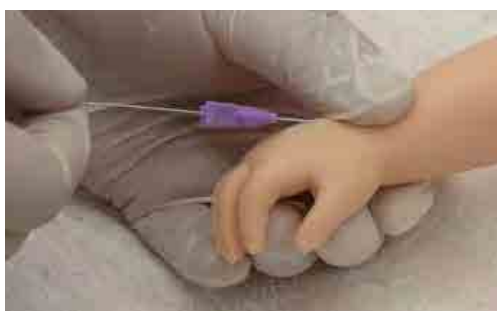
Training for puncture with the transillumination guide.



* This training is available for only light and medium tone models.

*Recommended needle size; 23G.-27G.
Recommended catheter size; 28G.

*Spray the attached lubricant to the catheter before practice.
*This products is unable to simulate flashback.



3 Umbilical Catheterization

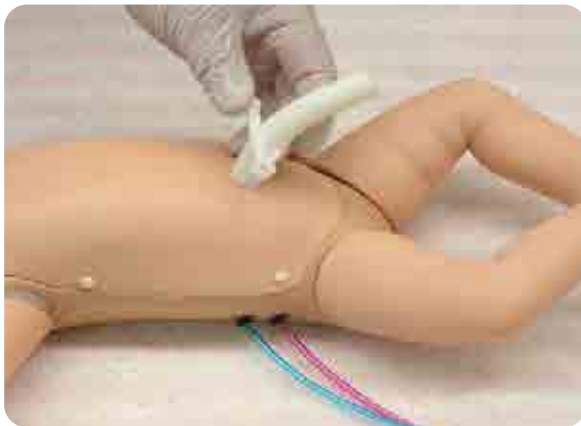


Provides training for routine procedure of umbilical catheterization for both operator and assistant.

- Omphalotomy
- Ligation with clip or string
- Catheter insertion
- Placement

Recommended Catheter Size; 16G 30cm

* Spray the attached lubricant to the catheter before practice.



Artery and Vein are elaborated

4 NG/OG Tube Feeding



Training for the catheter insertion through the nasogastric and orogastric tubes

- The catheter placement by dressing
- Air sounds can be heard with a stethoscope.

Recommended catheter size; 5Fr.



*Spray the attached lubricant to the catheter, nasal and oral cavity of model before practice.

5 Airway Suction



Training for the nasogastric and orogastric suction

Recommended catheter size; 5Fr.

*Use the lubricant to spray the catheter, nasal and oral cavity of model before practicing.

6 CPR



Training for chest compression

6 Airway Management

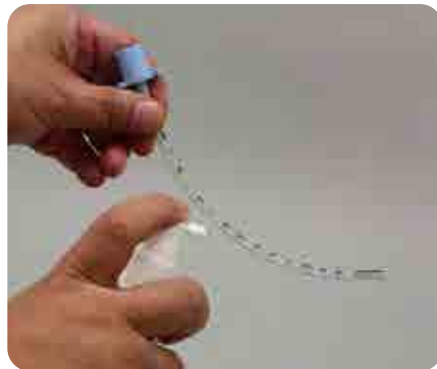


Training for the procedure of intubation with laryngoscope

- Bag-Valve-Mask ventilation
- Training for the assessment of intubation to the esophagus or one-lung or two-lung intubation

Preparing for Intubation

Spray the lubricant into the oral cavity and device before intubation practice.



Recommended device size
 Tube : 2.0~3.0 mm
 Blade : 0



1 Drainage of Simulated blood, Umbilical blood and Stomach fluid



1. Discharge the simulated blood from the blood tube after practice.
Connect the empty syringe to the red tube connector to draw the simulated blood after opening the blue cock.
*Repeat this drainage work until the tube is empty.

2. Remove the umbilical part and put out the umbilical bottle to drain the simulated blood. After that clean up the bottle and dry it up.



3. Connect the empty syringe to the connector at the back to draw the stomach fluid.



2 Replacing skin mask



1. Remove the skin mask from posterior part by lifting it.
2. Put the edge of mask on the gap of posterior head to cover the head when installing the face mask.
3. Refer to Preparation page regarding body skin replacement.

3 Veins Replacement

Replacing the vein tube of the right leg

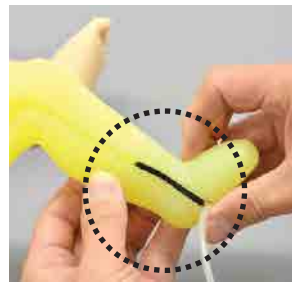
1. Remove the leg skin from its femoral side.
2. Disengage the two tube connectors at the femoral end of the leg. Then remove the tube from the internal part of the leg.
3. When replacing the new tube, insert the tip of the tube to one of the connectors. Fit the tube in the channel on the surface of the internal leg part. Then set the tube circulating the sole of the foot.
4. Insert the other end of the tube firmly to the remaining connector.
5. Put the skin over the internal part of the leg.



1.



2.



3.



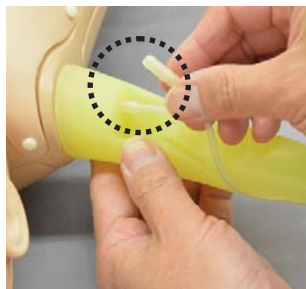
4.

Replacing the vein tube of the right arm

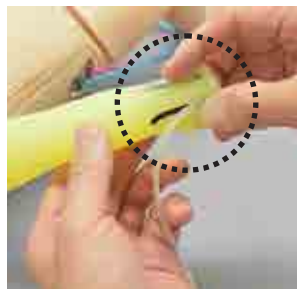
1. Remove the arm skin.
2. Disengage the two tube connectors at the shoulder of the arm. Then remove the tube from the internal part of the arm.
3. When replacing the new tube, insert the tip of the tube to one of the connectors. Fit the tube in the channel on the surface of the internal arm part. Then set the tube circulating the hand.
4. Insert the other end of the tube firmly to the remaining connector.
5. Put the skin over the internal part of the arm.



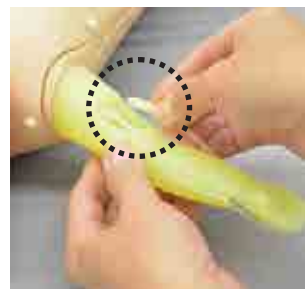
1.



2.



3.



4.

After use, be sure to remove the vein tube and store it.

If kept attached to the arm, the vein tube may become deformed and unusable.



Caution

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

Consumable parts

code	name
11400-010	1 mask of light tone
11400-010-D	1 mask of dark tone
11400-010-M	1 mask of medium tone
11400-020	1 chest skin of light tone
11400-020-D	1 chest skin of dark tone
11400-020-M	1 chest skin of medium tone
11400-050	1 right leg skin of light tone
11400-050-D	1 right leg skin of dark tone
11400-050-M	1 right leg skin of medium tone
11400-040	1 right arm skin of light tone

code	name
11400-040-D	1 right arm skin of dark tone
11400-040-M	1 right arm skin of medium tone
11400-030	4 umbilical cords
11400-080	1 abdomen
11400-310	4 right arm veins
11400-320	4 right leg veins
11229-050	1 lubricant
11388-400	Simulated blood (Swab type : a set of 10)



mask



chest skin



right leg skin



right arm skin



umbilical cord



abdomen



right arm vein



right leg vein



1 lubricant



Simulated blood

■ Main Office and Factory (World Wide)

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