

US-16

# Intravesical Urine Volume Measurement Training Simulator

## Instruction Manual

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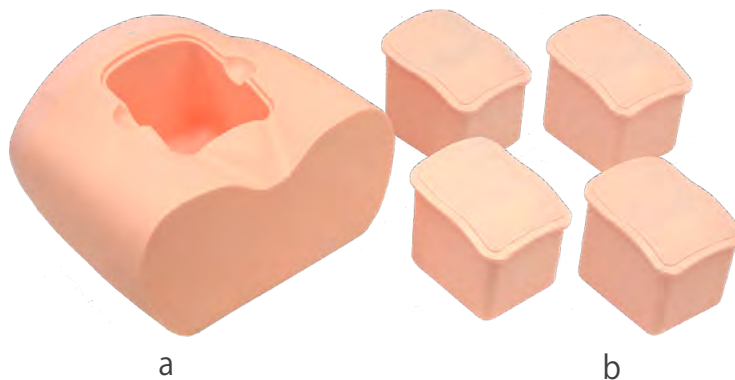
This simulator is designed to facilitate training in measurement of urine residue in the bladder using ultrasound.

- 4 variations of interchangeable inserts feature different patient scenarios.
- Suitable for training in assessment with pocket-type echo in home care setting.
- Effective hands-on tool for rehearsing multi-professional approach for restoration of the urinary tract function.

## Set includes:

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

a. Lower torso manikin	.....	1
b. phantom	.....	4
Carrying case	.....	1
Instruction manual (this leaflet)		



## ⚠ DOs and DON'T s

### DO s

Handle with care.

The materials for phantom are special composition of resin. Please handle with care at all times.

#### Cleaning and care

Clean the phantom completely every time after the training.

The remaining gel may deteriorate the phantom.

Keep the phantom at room temperature, away from heat, moisture and direct sunlight.

### DON'T s

Never wipe the phantom with thinner or organic solvent.

Don't mark on the phantom with pen or leave printed materials contacted on their surface. Ink marks on the surface will be irremovable.

Please note: The color of the phantom may change over time, though, please be assured that this is not deterioration of the material and the ultrasonic features of the phantom stay unaffected.

# Preparation Training

## 1 Before training



1. Set the phantom on a stable surface.



2. Spread lubricant gel on the phantom body.

## 2 Training session



The phantom can be scanned with actual ultrasound devices.

\* The map of simulated targets is on the backside of this manual.

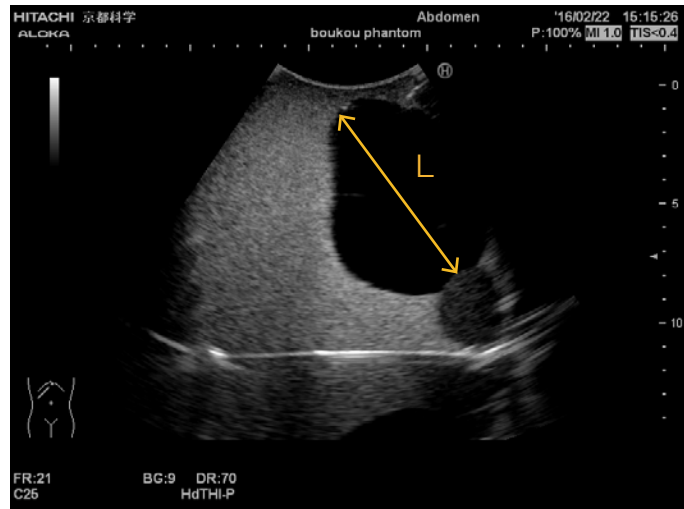
## 3 After training



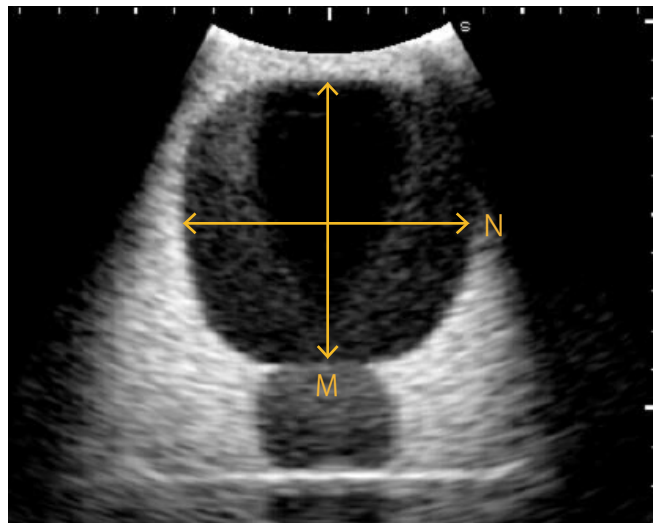
Wipe the remaining gel completely with wet cloth. If remaining gel gets dried up on the body, it will be irremovable.

## 1 Training session

1. Sagittal plane: measure the maximum internal diameter of the bladder (L)



2. Transverse plane: measure the maximum internal vertical diameter (M)  
\*depth and transverse diameter (N) \*width of the bladder.



Calculation of urine residue volume

L: maximum internal diameter of the bladder in sagittal plane

M: maximum internal vertical diameter (depth) in transverse plane which includes maximum bladder width

N: maximum internal transvers diameter (width) in transverse plane which includes maximum bladder width

$L \times M \times N \times 1/2 \cong$  urine residue volume  
Urinary retention



## Caution

Do not mark on the phantom with pen or leave printed materials contacted on its surface. Ink marks on the phantom will be irremovable.

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50m l



150m l



300m l



urinary retention

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