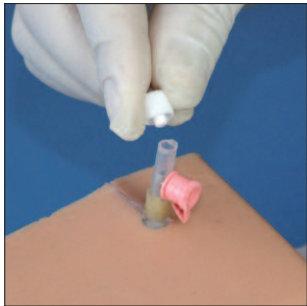
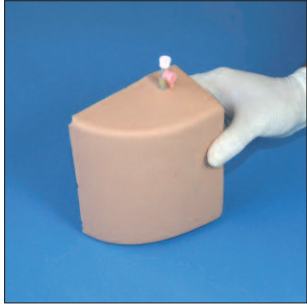


## Removing air

1



To provide the best ultrasound image, the renal pelvis needs to be full of fluid with as few air bubbles as possible. After filling, place the Slab on its end. This allows any trapped air to rise up to the top of the luer lock.

Unscrew the white cap.

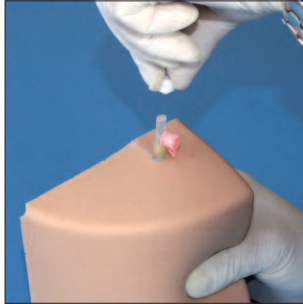
2



Squeeze the centre part of the Slab. This compresses the renal pelvis and forces the air up and out of the luer lock.

When all of the air has been removed a small amount of fluid will be forced out of the end of the luer lock.

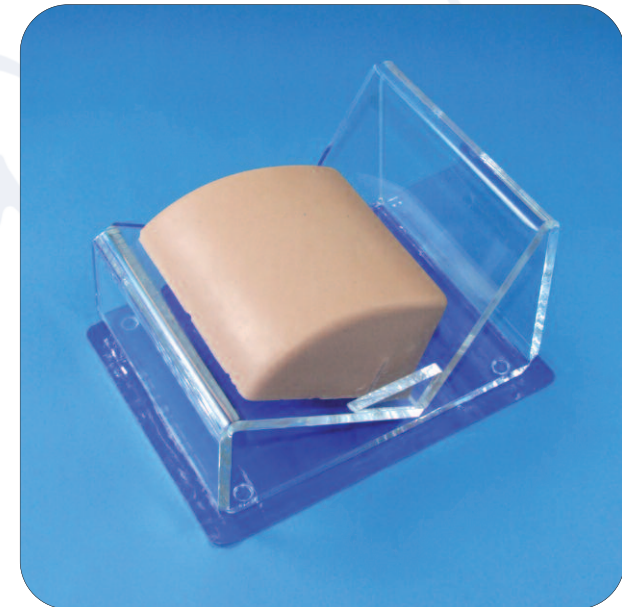
3



Keep the pressure on the Slab and replace the white cap. Get someone else to help if necessary.

The Trainer is now full of fluid and is ready to use.

# Ultrasound Percutaneous Nephrostomy Trainer User Guide



# Ultrasound Percutaneous Nephrostomy Trainer

Part No: **60540**

For the acquisition of the skills required for percutaneous nephrostomy under ultrasound guidance.

## Skills

- Use and handling of ultrasound transducers
- Recognition of anatomical fluid filled cavities (calyces and renal pelvis) within an echolucent material
- Use, direction and control of (sheeba/kellet) needles under ultrasound guidance
- Draining of fluid

## Features

- A unique trainer combining the complex anatomy of the kidney with realistic and echolucent material
- Realistic ultrasound image of the fluid filled cavities within surrounding tissue
- Cavities can be distended using water pressure to provide more obvious targets
- Realistic drainage of fluids when the needle enters the target calyx
- Nine possible target calyces, allowing the nephrostomy to be performed at varying angles and hence levels of difficulty
- The material re-seals leaving no needle tracks

## Package supplied

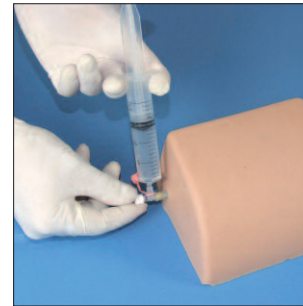
- **2 Ultrasound Nephrostomy Slab** Part No: **60541**
- **1 Thirty Degree Base** Part No: **60503**
- 1 non-slip mat
- 1 10ml syringe

## Health and Safety

- Use gloves when handling and refilling the Slab
- The vein contains natural latex
- Observe normal hygiene procedures after handling the model without using gloves

## Filling and removing fluid

### Filling



Place the Slab flat on the work surface.

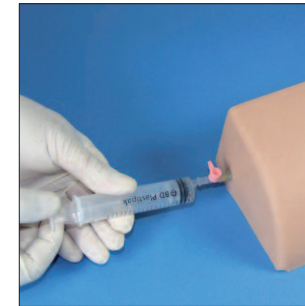
Lift the pink cap on the one-way valve and attach the syringe.

Inject the amount of fluid required.

Replace the cap when you have finished filling the Slab.

If the underside of the Slab is dimpled, follow the **Removing Air** procedure before filling again.

### Removing



Place the Slab flat on the work surface.

Unscrew the white cap and attach the syringe.

Remove the amount of fluid required.

Reattach the cap when you have finished.

**If you empty the renal pelvis completely you will need approximately 35ml of fluid to refill it.**

**Replacement fluid can be ordered in the following amounts:**

- **50ml** Part No: **70012**
- **250ml** Part No: **70022**