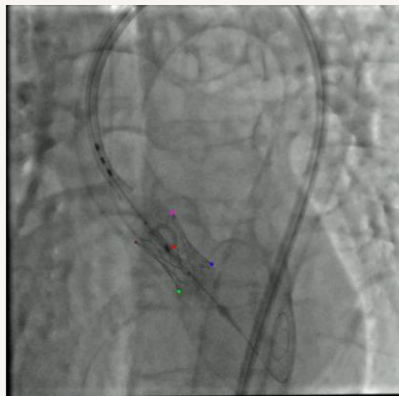




PRODUCT DESCRIPTION

The Cardiovascular Interventional Simulator is a fully modular heart and vascular training platform designed for repeated catheter-based training, device testing and experimentation. The silicone heart phantom is housed in an acrylic water tank, while vessel ports allow connection to off-the-shelf pumps and flow systems when required. Modular catheter-entry blocks reproduce the curvature of leg, arm and neck access routes and incorporate replaceable valves for repeated catheter and sheath insertion using the Seldinger technique. The radiographic realism can be achieved using 3D radiographic spine or x-ray test plates placed under the tank. The system can also be fitted with additional radiographic markers to further enrich the radiographic scene. The system can be assembled, disassembled and maintained with ease, with replaceable components.



Simulator system and its fluoroscopy appearance.

The system is compatible with the x-ray test plates to provide a hyper-like x-ray scene.

KEY FEATURES

- ✓ The model includes: all 4 chambers of the heart, the aorta, pulmonary trunk, inferior and superior vena cava, the atrial appendages, 4 pulmonary veins, and the 4 valves.
- ✓ Replacement parts can be purchased off-the-shelf.
- ✓ X-ray, MRI, and Ultrasound compatible.
- ✓ Realism realistic radiographic scene.
- ✓ Compatible with the x-ray test plates.
- ✓ Easy maintenance.
- ✓ Pump-free.
- ✓ Clinically validated for animal-free AI testing.

WHAT CAN BE PRACTISED

- Implant Placement
- Catheter navigation
- Vascular repair

TRAINING SETTINGS

- Catheterisation laboratory
- Classroom
- Office

EDUCATIONAL VALUE

- Reusable for over 500 hours
- Transparency aids inexperienced users.
- Replaceable parts minimise teaching/maintenance costs.

TECHNICAL SPECIFICATIONS

Colour: Clear, translucent.

Material: Silicone, acrylic, urethane.

Imaging compatibility: x-ray, MRI, ultrasound.

Flow: Compatible with pumps, pump not included.

Radiographic features: Spine, x-ray test plates, additional radiographic markers.

INTENDED TRAINING APPLICATION

- Valve implantation and repair (e.g. TAVI, mitral clip)
- Stent placement
- Catheter navigation and manipulation
- Cardiovascular interventional techniques
- Seldinger access technique
- Device testing and procedural rehearsal

USAGE AND LIFESPAN

500+ HOURS

REUSABLE TRAINING

Designed for repeated teaching, training and experimentation.

LOW MAINTENANCE

REPLACEABLE PARTS

All parts including the heart valves and access components can be serviced or replaced.

MULTI-PROCEDURE

VERSATILE TRAINING

Supports most catheter-based cardiovascular interventional procedures.