

PRODUCT DESCRIPTION

Inflatable penile prosthesis implantation is a technically demanding procedure with limited opportunities for structured hands-on training. This validated full-procedure simulator integrates penile, scrotal, abdominal, pelvic and retropubic anatomy, enabling rehearsal of the operative workflow from corporotomy and corporal dilatation through cylinder, pump and blind reservoir placement.



Full-procedure penile implant training platform

Integrated torso-pelvic anatomy and procedural training view

KEY FEATURES

- ✓ Complete IPP workflow in one integrated training platform
- ✓ 24 integrated anatomical structures with pelvic and retropubic landmarks
- ✓ Corporotomy, dilatation, measurement, cylinder, pump and blind reservoir placement
- ✓ Reusable torso-pelvic module with replaceable penile component
- ✓ Designed for standard IPP devices and commonly used surgical instruments

WHAT CAN BE PRACTISED

- Corporotomy and corporal exposure
- Corporal dilatation, measurement and error inspection
- Cylinder insertion and corporotomy closure
- Scrotal pump and blind reservoir placement

TRAINING SETTINGS

- Prosthetic urology workshops and courses
- Simulation centres and skills laboratories
- Supervised small-group teaching
- Trainee skills development and refreshers

EDUCATIONAL VALUE

- Rehearse the complete operative workflow before live patient exposure
- Develop 3D anatomical orientation for reservoir placement
- Standardised, repeatable full-procedure training
- Cadaveric assessment showed higher performance after simulator training

TECHNICAL SPECIFICATIONS

Procedure: Full inflatable penile prosthesis implantation

System: Reusable torso-pelvic module with replaceable penile module

Anatomy: 24 integrated penile, scrotal, abdominal, pelvic, inguinal and retropubic structures

Reservoir training: Blind placement with pubic tubercle, inguinal canal and bladder landmarks

Construction: Tissue-mimicking elastomers with 3D-printed structural elements

INTENDED TRAINING APPLICATION

- Complete IPP implantation rehearsal
- Corporal preparation, measurement and cylinder placement
- Pump and blind reservoir placement
- Recognition of corporal perforation and crossover
- Instructor-led prosthetic urology training

VALIDATION HIGHLIGHTS

4.75 vs 3.48

OVERALL PPAT PERFORMANCE

Mean scores on the 5-point competency scale.

4.47 vs 3.67

OVERALL CONFIDENCE

Mean self-reported confidence after cadaveric IPP surgery.

26.5 vs 32.0 min

PROCEDURAL TIME

Mean corporotomy-to-closure time.

Preliminary fresh-frozen cadaveric assessment: simulator-trained vs untrained participants (final assessed n=4).