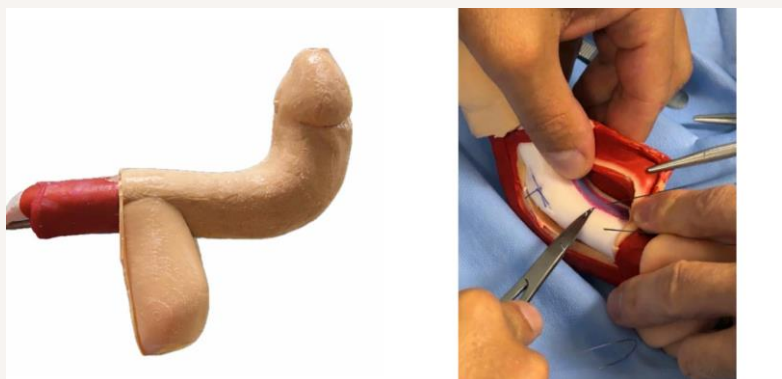


PRODUCT DESCRIPTION

Penile reconstructive surgery for Peyronie's disease and congenital penile curvature requires precise correction of curvature and careful dissection of layered penile anatomy. This validated simulator enables surgeons to rehearse plication and plaque incision with grafting in a repeatable training environment before live patient exposure.



Penile reconstructive surgery training platform
Curvature simulator and layered anatomical dissection

KEY FEATURES

- ✓ Layered anatomy including corporal bodies, dartos, Buck's fascia, dorsal arteries, deep dorsal vein and tunica albuginea
- ✓ Curvature model for Peyronie's disease and congenital penile curvature training
- ✓ Supports plication and plaque incision with grafting
- ✓ Tissue-mimicking silicone construction with realistic tissue feel
- ✓ Validated by 6 British urological surgeons

WHAT CAN BE PRACTISED

- Penile plication
- Plaque incision and grafting
- Layered dissection and key anatomical identification
- Surgical correction of penile curvature

TRAINING SETTINGS

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

EDUCATIONAL VALUE

- Procedural rehearsal before live patient exposure
- Standardised reconstructive surgery teaching
- Supports preparedness and confidence
- All evaluated surgeons supported curriculum integration

TECHNICAL SPECIFICATIONS

Training indications: Peyronie's disease (PD) and congenital penile curvature (CPC)

Construction: Tissue-mimicking silicone moulding

Design: Medical image segmentation, CAD and 3D printing

Key anatomy: Corporal bodies, dartos, Buck's fascia, dorsal arteries, deep dorsal vein and tunica albuginea

Validation: 6 British urological surgeons; 2 experts (>100 cases) and 4 surgeons (10-60 cases)

INTENDED TRAINING APPLICATION

- Plication procedure rehearsal
- Plaque incision and grafting
- Surgical anatomy familiarisation and layered dissection
- Instructor-led penile reconstructive surgery teaching

VALIDATION HIGHLIGHTS

4.7 ± 0.7

ANATOMICAL REALISM

Mean surgeon rating on a 5-point Likert scale.

4.5 ± 0.8

PPLICATION TRAINING

Mean surgeon rating for plication training.

5.0 ± 0

PLAQUE INCISION & GRAFTING

Mean surgeon rating for plaque incision and grafting.