alexandre miranda andrologia urologia

Validation of 3D-printed Flexible Penile Model Simulator for Plaque Incision and Graft for Peyronie's Disease

Surgeon's name:_____

Hospital City: _____

Date:_____/_____/_____ (day/month/year)

Birthday:_____/_____/_____ (day/month/year)

Time to perform the plaque incision and graft using the 3D printed model: _____ min

Overall experience:

- ○ Resident
- ○ Fellow
- ○ Expert Surgeon

Specific experience in Plaque incision and graft

- ○ < 10 procedures / year
- ○ 10 -20 procedures / year
- ○ > 20 procedures / year

(Likert scale) scale 0-5 (0=strongly disagree / 5 = strongly agree)

Content Validity

1.Is there a role for a validated Peyronie's disease simulator for use in training?

■ □ □ □ □ □

0 1 2 3 4 5

2.Is simulation-based assessment and training for Peyronie's disease surgery essential for patient safety?

■ □ □ □ □ □

0 1 2 3 4 5

3.Plaque incision and graft (PIG) for Peyronie's disease is an effective method of treatment and training is a must?

■ □ □ □ □ □

0 1 2 3 4 5

4.After performing the simulation with the 3D model, you feel more confident to perform PIG to correct penile curvature.

■ □ □ □ □ □

0 1 2 3 4 5

5.Should the model be implemented as part of the surgeon's training to perform PIG?

■ □ □ □ □ □

0 1 2 3 4 5

2.Please rank each item according your perception of the Peyronie's disease model

Point Likert Scale: (1: poor, 2: marginal, 3: moderate, 4: good, and 5: excellent)

2.1.Realistic design

☐☐☐☐☐
1 2 3 4 5

2.2.Anatomy

☐☐☐☐☐
1 2 3 4 5

2.3.Texture

☐☐☐☐☐
1 2 3 4 5

2.4.Steps of the procedure

a.Curvature measurement

☐☐☐☐☐
1 2 3 4 5

b.Incision of the tunica albuginea

☐☐☐☐☐
1 2 3 4 5

c.Preparation of the graft

☐☐☐☐☐
1 2 3 4 5

d.Suturing the graft to the tunica albuginea

☐☐☐☐☐
1 2 3 4 5

3.Please rank each item according your perception of the Peyronie's disease model

3.1.Global difficulty (1 very easy to 5 very hard)

☐☐☐☐☐
1 2 3 4 5

3.2.Usability (the ease of use and learnability of the model)

☐☐☐☐☐
1 2 3 4 5

3.3.Overall experience

☐☐☐☐☐
1 2 3 4 5