

770

Huri E¹, Eroglu M¹

1. Hacettepe University

HEAD-MOUNTED CAMERA GUIDED MALE SLING PROCEDURE FOR DETAILED ANATOMIC AND TECHNICAL TRAINING: SURGEON-EYE SIMULATION TRAINING METHOD

Introduction

In this video, we presented the usage and efficacy of headmounted camera during the male sling procedure to evaluate detailed anatomy and technical skills after the surgery.

Design

66-years old male patient admitted to our clinic with mild to moderate stress urinary incontinence. He had previous radical prostatectomy history 6 years ago. After his surgery, immediate incontinence started , He underwent anti-cholinergic and pelvic floor therapy for urinary incontinence without any improvement. We performed detailed urologic evaluation focused on incontinence problem. Urinary analysis, uroflowmetry results, renal function values were in normal range. In cystometric evaluation, normal bladder capacity without detrusor hyperactivity, and incontinence with valsalva manoeuvre at 210 cc were detected. In cystoscopic evaluation, loss of integrity in urethral sphincter level was detected with our urethral stricture. Volunteer pelvic floor contraction was seen in endoscopic view at the membranous urethral part. Adjustable male sling procedure was planned for his patient. Transobturator approach was preferred. ARGUS (Promedon) was used as sling material.

Results

During the surgery, we used GoPro HERO4 camera as head mounted type to record all procedure for anatomic and technical training following the surgery. We described the advantages of usage head-mounted camera as follows; 1) Surgeon-eye view onto the surgical fields 2) Feeling the all movements of the surgeon and environment in operating room 3) Technical properties of the surgery (adjustable male sling) 4) Detailed perineal anatomy 5) Translation of the recorded video to virtual reality glasses.

Conclusion

In perineal surgery like adjustable male sling procedure, learning the complex anatomy, converting two dimension into three dimensional view for closed anatomic area and right usage of novel technologic tools can be provided head-mounted camera record with per/post operation self evaluation and training aims.

Disclosures

Funding: No funding **Clinical Trial:** No **Subjects:** NONE