

## EARLY RESULTS OF TRANSOBTURATOR SLING SUSPENSION FOR MALE STRESS URINARY INCONTINENCE

### Hypothesis / aims of study

To report early continence results and complications after placement of a transobturator sling suspension (AdVance® Male Sling System) in men with stress urinary incontinence following lower urinary tract surgery.

### Study design, materials and methods

Between June 2007 and February 2009 62 patients underwent a transobturator sling suspension for stress urinary incontinence due to radical prostatectomy (59/62), transurethral resection of the prostate (1/62) or radical cystectomy (2/62). Mean age was 70 (54-81) years. Prior to the transobturator sling suspension 17 patients received injection intraurethral of bulking agents. Five patients underwent prior adjuvant irradiation. The mean pre-operative pad usage was 5 (1-9) per day (24 hours). Pre-operative all patients underwent uroflow, urethroscopy and cystoscopy. All patients had residual sphincter function as evaluated by urethroscopy. The mean follow-up is 10 (1,5-19) month.

### Results

Mean operative time was 59 (27-145) minutes. 49 patients had no complications. One patient had an intraoperative injury of the urethra. In another patient secondary woundclosure was necessary because of perineal wound dehiscence. Following removal of the catheter, 11 patients had urinary retention and were temporary requiring a transurethral catheter or suprapubic drainage. All catheter could removed within 3 weeks.

Postoperative results are available from 57 of the 62 patients. The median pad usage was reduced from 5 pads pre- to 2 pads postoperatively. After two month the incontinence cure rate (defined as 0-1 pads use per 24 hours) was 51% (29/57 patients) and decreased to 44% (25 patients) after ten month.

The improvement of incontinence after two month (defined as 1-2 pad use per 24 hours) accounted for 19% of the patients (11 patients) and decreased to 16% after ten month.

Two month postoperatively 9 patients (16%) still needed 3-4 pads per 24 hours. After ten month 14 patients (24,5%) needed 3-4 pads per 24 hours. 8 and 9 patients needed more than 4 pads per 24 hours after two and ten month respectively. 61% of patients were very satisfied even if they had "only" an improvement of incontinence.

### Interpretation of results

The incontinence cure rate decreases slightly during a follow up of 10 month

### Concluding message

The transobturator sling suspension using the AdVance® System seems to be a good option for the treatment of mild and moderate stress urinary incontinence with a low complication rate. However longer follow-up is required to define real benefit for the patients.

<b><i>Specify source of funding or grant</i></b>	<b>None</b>
<b><i>Is this a clinical trial?</i></b>	<b>Yes</b>
<b><i>Is this study registered in a public clinical trials registry?</i></b>	<b>No</b>
<b><i>What were the subjects in the study?</i></b>	<b>HUMAN</b>
<b><i>Was this study approved by an ethics committee?</i></b>	<b>No</b>
<b><i>This study did not require ethics committee approval because</i></b>	<b>This is a retrospective study.</b>
<b><i>Was the Declaration of Helsinki followed?</i></b>	<b>Yes</b>
<b><i>Was informed consent obtained from the patients?</i></b>	<b>No</b>