

IMPROVED DRY RATES WITH A NEWLY DESIGNED TRANSOBTURATOR SLING IN MALE STRESS URINARY CONTINENCE

Hypothesis / aims of study

Transobturator male slings have been introduced in the treatment of male stress urinary incontinence that often occurs as a complication after radical prostatectomy. The inside-out retroluminal and non-obstructive AdVance® sling is commonly used with reasonable success rates (reported success rates of 76%). A proposed mechanism for sling failure is slippage of the sling behind the bulbus. Recently the AdVance® sling was redesigned to improve procedural reproducibility with longer arms what makes it easier to use in larger patients and distinct tissue anchors that increase holding power during the critical healing period.

The aim of the study is to assess whether the newly designed inside – out transobturator male sling, AdVance XP® improves immediate continence outcome in post prostatectomy male stress urinary incontinence, compared to the conventional Advance male sling.

Study design, materials and methods

The study is a single – center, retrospective cohort study. All data from patients were prospectively collected. A consecutive series of 77 patients, treated with the AdVance® male sling between 2007 and march 2011 was compared with a pilot series of 14 patients treated with the AdVance® male sling XP between 2011 and now. Postoperative continence was evaluated using 24h pad count. Success was defined as being completely dry (0 pads per day). Validated questionnaires concerning the quality of life were offered to the patients.

Results

Preoperatively in the AdVance® group 37%, 62% of the patients were using two and three or more pads respectively. In the AdVance XP® group, 35% and 64% of the patient were using two and three or more pads respectively. Six weeks postoperatively, 35% of the patients in the AdVance® group and 78% in the Advance XP® group were completely dry. This was a statistically significant difference ($p = 0.007$, Chi square test). The quality of life improved in all patients.

Interpretation of results

In the immediate postoperative follow- up, there is a statistically significant proven amelioration of the results of the Advance XP® concerning the continence. The increased fixation with the distinct tissue anchors probably keeps the sling more precisely in place during the first postoperative weeks.

Concluding message

The redesigned inside – out transobturator Advance XP® sling with tissue anchors to prevent slippage, has a clinically significant higher dry rate in the treatment for post prostatectomy male stress urinary continence in the immediate postoperative period. Whether these results remain as favorable on the long term remains to be elucidated. Larger prospective data need to confirm these preliminary findings.

References

1. Rehder R, et al. Treatment of postprostatectomy male urinary incontinence with transobturator retroluminal repositioning sling suspension: 3- years follow- up. EururoI(2012), doi

Disclosures

Funding: No financial disclosure **Clinical Trial:** Yes **Public Registry:** No **RCT:** No **Subjects:** HUMAN **Ethics not Req'd:** a retrospective study **Helsinki:** Yes **Informed Consent:** Yes