

## TOTAL TRANSVAGINAL POLYPROPYLENE PROLAPSE REPAIR WITH SACROSPINOUS FIXATION & TVTO: MINIMUM 1-YEAR FOLLOW-UP

### Hypothesis / aims of study

We have recently witnessed an insurgence in the utilization of Polypropylene mesh for the vaginal repair of Pelvic Organ Prolapse (POP). Concomitant POP and mid-urethral sling regardless of preoperative urodynamic proven stress incontinence (SUI) is studied much rarer but may be gaining proponents to prevent occult SUI.

### Study design, materials and methods

Between May 2005 and February 2008, a single retrospective cohort study of 72 consecutive patients who underwent total transvaginal polypropylene mesh interposition and Sacrospinous Fixation with tension-free vaginal tape –obturator (TVTO, Gynecare, Somerset, NJ, USA) approach under general or regional anesthetic. Patients had a complete history and physical, cystoscopy and videourodynamics. All patients completed a UDI-6, IIQ-7 and PFDI-20 score preoperatively and 1 year post-operatively and presented with an International Continence Stage 2 (POP) or more prolapse in two or more pelvic compartments. All study participants had a prior hysterectomy. Failures and complications were defined to include International Continence Society (ICS) Stage 2 or more recurrent prolapse, incidence of mesh exposure, de novo i.e. stress incontinence, urgency or dyspareunia, and intraoperative complications.

### Results

Failure rate was 9 percent (6/72) with a median follow-up of 26±11.94 months. There was a mesh exposure rate of 6 percent. De novo stress incontinence, urgency and dyspareunia were 8, 15 & 12 percent. Median operative time was 88 minutes± 12.73 minutes with a corresponding median blood loss of 100 mls± 75 mls. There were three cystotomies and two rectal enterotomies.

### Interpretation of results

The Total transvaginal Polypropylene mesh repair with Sacrospinous Fixation and TVTO is a very successful minimally invasive approach to prolapse and preventive SUI providing excellent resolution of significant prolapse with acceptable mesh exposure rates.

### Concluding message

In the short term total transvaginal polypropylene repairs with TVTO maybe successful in preventing de novo SUI.

<b><i>Specify source of funding or grant</i></b>	<b>None</b>
<b><i>Is this a clinical trial?</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>No</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>Yes</b>