

## **TVT SECUR® IN TREATING FEMALE STRESS URINARY INCONTINENCE: EARLY EXPERIENCE**

### Hypothesis / aims of study

To report early experience of TVT SECUR®, specifically assessing the perioperative complications and early cure rates.

### Study design, materials and methods

TVT SECUR® is a new, innovatively designed tension-free vaginal tape that facilitates a less invasive approach and thus eliminates thigh discomfort which is associated with TVT Obturator. The TVT SECUR® is four times shorter in length than the traditional slings. The first 30 cases of TVT SECUR® were done from 22 August 2006 to 29 December 2006 on women with urodynamically confirmed stress urinary incontinence. The procedures were done with the recommended steps and all cases were performed by the same surgeon. Operative details (type of anesthesia, duration, blood loss) and perioperative complications (bladder perforation, fever, thigh pain, voiding disorders) were recorded and all patients were seen at one week and one month after the procedures.

### Results

Thirty patients were included in the study. Thirty-percent (9) of women had TVT SECUR® procedure in conjunction with other vaginal surgeries and 70% (21) had TVT SECUR® alone. None had previous continence surgery. Intraoperatively there was 1 bladder perforation (3.3%) and 1 bladder abrasion (3.3%). The blood loss was minimal (mean 12 mls) in patients who had TVT SECUR® only. 96.7% of women had spontaneous voiding with no need for catheterization. There were no patients with fever, urinary tract infection, thigh pain or bruises. There was no readmission. The woman was regarded as cured if she was continent and had negative stress test, improved if she had less leaking and failed if her symptoms were the same as before operation. At one-month follow-up, the cure rate was 67% (20 cases), 23% (7) improved and 10 % (3) failed. There was no newly developed urgency or urged incontinence at one-month follow-up. The six months outcome will be presented.

### Interpretation of results

TVT SECUR® is a safe procedure with only minor complications when performed by surgeon who had experience with retropubic and transobturator tape procedures. The one-month cure rate was rather low when compared to TVT and TVT - Obturator. The six months cure rate is better as the tape contracted after sometime.

### Concluding message

TVT-SECUR is another new invention for female stress urinary incontinence with minimal risks and complications.

### **FUNDING: NIL**

**HUMAN SUBJECTS: This study was approved by the KKH Institutional Review Board and followed the Declaration of Helsinki Informed consent was obtained from the patients.**