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PROSPECTIVE COMPARATIVE STUDY BETWEEN THE TVT-SECURE AND TOT PROCEDURES FOR TREATMENT OF STRESS URINARY INCONTINENCE PATIENTS

Hypothesis / aims of study

TVT-Secur (TVT-S) sling was launched in 2006, and widely used for treatment of female stress urinary incontinence (SUI). However, the efficacy and complication is not fully evaluated. The purpose of our study was to compare the efficacy and safety of TVT-S and Transobturator tape (TOT) procedures for SUI treatment.

Study design, materials and methods

40 patient were enrolled and evaluated with history taking, physical examination, cystometrography, 3 day frequency-volume chart and King's health questionnaire (KHQ). Patients with any neurologic diseases that affect the voiding pattern were excluded. Patients were randomly allocated to either TVT-S or TOT procedure. Patient's satisfaction and complication were evaluated in 6 months postoperatively.

Results

Each groups were consist with 20 patients, and median age were 50.7 (41.4~63.0) years in TOT group and 49.6 (35.0~74.2) in TVT-S. No differences in each group were observed in clinical characteristics, voiding patterns, urodynamic findings and domains of KHQ (each $p>0.05$). Any operative complication was not noticed in two groups. Postoperative KHQ domains did not show the difference between two groups. Three patients in TOT group and four in TVT-S complained slow stream after operation, but all improved spontaneously or after urethral dilatation. Subjective cure rate was 85% (17/20) in TOT group and 90% (18/20) in TVT-S group, but SUI symptoms recurred within 6 months in two patients (10%) who underwent TVT-S.

Interpretation of results

TVT-S and TOT were safe and successful procedures for treatment of SUI patients. However, two patients (10%) of TVT-S group complained the recurrence of SUI symptoms.

Concluding message

TVT-S operation is successful procedure for treatment of SUI patients. But long-term follow-up is need for evaluate the exact efficacy and complication of TVT-S procedure.

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What were the subjects in the study?	**HUMAN**
Was this study approved by an ethics committee?	**Yes**
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Was the Declaration of Helsinki followed?	**Yes**
Was informed consent obtained from the patients?	**Yes**