

## THE IMPACT OF TENSION-FREE VAGINAL TAPE-OBTURATOR OR TENSION-FREE VAGINAL TAPE-SECUR PROCEDURE ON QUALITY OF LIFE AND OVERACTIVE BLADDER SYMPTOMS IN WOMEN WITH URINARY INCONTINENCE: DOCUMENTED WITH VALIDATED QUESTIONNAIRES

### Hypothesis / aims of study

To analyze of changes in quality of life and overactive bladder symptoms after Tension-free Vaginal Tape-Obturator (TVT-O) or Tension-free Vaginal Tape-Secur (TVT-S) procedure, we assess the efficacy with validated questionnaires.

### Study design, materials and methods

Between March 2008 and February 2009, 100 patients with clinical and urodynamic diagnoses of female stress urinary incontinence (UI) underwent TVT-O (n=51) or TVT-S (n=49) procedure. Preoperative and postoperative evaluations included physical examination, Incontinence-Quality of Life (I-QOL) and Overactive Bladder-questionnaire (OAB-q) questionnaires.

### Results

One-month minimum follow-up was available on 58 of the initial 100 patients who were able to document with validated questionnaires. The overall success rate was 93.7%. Mean total I-QOL scores increased 42 scores and OAB symptoms severity scores decreased 33 scores. Most patients reported significant improvements in quality of life and overactive bladder symptoms.

### Interpretation of results

There were no differences between TVT-O and TVT-S procedures. The surgical correction of stress urinary incontinence was very effective for the improvement of the aspect of quality of life and overactive bladder symptoms of patients.

### Concluding message

The results of this study, which suggest that TVT-O or TVT-S procedure is a efficient surgical treatment for the improvement of the aspect of quality of life and overactive bladder symptoms of patients as well as female UI itself.

**Table 1. Baseline patient characteristics**

	Total (n=58)	TVT-O (n=31)	TVT-S (n=27)	p-value
Mean age (range)	56.07 (41-76)	55.52	56.70	0.612
Mean parity (range)	2.97 (1-6)	2.87	3.07	0.471
Mean BMI (range)(kg/m <sup>2</sup> )	25 (19-37)	24.73	25.54	0.349
Mean Sx duration (range)(years)	6.15 (0.25-28)	7.07	5.09	0.213
Mean follow up (range)(weeks)	5.91 (4-14)	6.00	5.81	0.742
Presence of UUI (%)	11 (19)	6	5	0.935
Sx grade I (%)	30 (52)	16	14	0.986
II (%)	28 (48)	15	13	0.986
Presence of POP (%)	27 (47)	14	13	0.820
Prev. anti-incontinence surgery (%)	8 (14)	8	0	0.004

**Table 2. Comparison of preoperative and postoperative I-QoL and OAB-q scores**

	Subscales	Preoperative scores	Postoperative scores	p-value
I-QoL	Total	35.44	77.31	<0.001
	Avoidance and limiting behaviors	36.80	76.94	<0.001
	Psychosocial impacts	39.61	79.89	<0.001
	Social embarrassment	25.78	73.28	<0.001
OAB-q	Symptom severity	49.05	15.75	<0.001
	Coping	50.55	85.50	<0.001
	Concern	51.71	87.43	<0.001
	Sleep	59.12	83.76	<0.001
	Social	69.52	91.76	<0.001
	HRQL total	55.71	86.94	<0.001

**Specify source of funding or grant**

none

**Is this a clinical trial?**

No

**What were the subjects in the study?**

HUMAN

**Was this study approved by an ethics committee?**

Yes

**Specify Name of Ethics Committee**

Ethics committee of Chonbuk National University Hospital

**Was the Declaration of Helsinki followed?**

Yes

**Was informed consent obtained from the patients?**

Yes

