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THE TRANSOBTURATOR TAPE SLING PROCEDURE WITH MONARCTM USING MODIFIED TAPE INSERTION SITE LESSENED POSTOPERATIVE LEG PAIN

Hypothesis / aims of study

The transobturator sling is currently a very popular method in female stress incontinence (SUI) and has shown high success rates and patient satisfaction. However, a small number of patients reported complications of leg pain after surgery.[1] In surgical textbooks, the recommended groin skin incision point through the obturator foramen is just lateral to the ischiopubic ramus, level with the clitoris [2] However, the adductor muscle belly(a.m.b.) of some patients was located at the recommended site of incision. We tried to avoid the adductor muscles and approached just below the tendon of adductor brevis and gracilis muscle in order to avoid muscle injury and reported the results and safety of our modified technique.

Study design, materials and methods

At our center, 184 SUI patients received the transobturator tape procedure (TOT) using a monofilament polypropylene tape (Monarc[™]) from Feb. 2006 to Dec. 2008. Each patient underwent careful history-taking, a pelvic physical exam, urinalysis, a 1hour pad test and an urodynamic study preoperatively. Each revisited our center 1,3,6,12 months after surgery and then yearly. For patients lost to follow-up within 3 months, the Stamey's surgical outcome scale(SSOS) questionnaire[3] and questions about the postoperative complications were checked via phone interview. Surgical success was defined by the SSOS as minimal or no leakage with subjective satisfaction.

The new insertion point was just below the tendon of adductor brevis and gracilis muscle and above the tendon of adductor magmus muscle, generally 1-1.5cm below the level of clitoris and very easily palpable as skin notching which just lateral to the ischiopubic ramus and between the muscle bellies of the adductor brevis and the adductor magnus. (Figure 1)

Results

The mean age of the 184 patients was 54.3±9.2 years. The patient characteristics are shown in Table 1. The statuses of 162 of the 184 patients after surgery could be identified. The overall treatment success rate was 85.8% (139 of 162 patients). One hundred and fourteen patients (70.4%) were completely cured, and 25 patients (15.4%) showed improvement after TOT surgery. After this modified TOT surgery, 2 patients (1.2%) complained of de novo urgency, and 2 patients (1.2%) suffered from interruption. With the exception of one patient, none complained of leg discomfort at 1 month postoperatively. There was one patient who complained of upper leg pain 3 months after surgery. This patient was diagnosed with lumber radiculopathy and showed the improvement after treatment of the lumber radiculopathy.

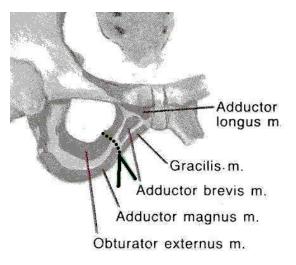
Interpretation of results

The modified insertion site of monofilament polypropylene tape showed comparable surgical success rates and no leg pain.

Concluding message

Postoperative leg pain could result from nerve or muscle injury. Our modified surgical method, which generally tried to avoid the muscle injury, seemed to lessen leg pain after TOT procedures.

Figure 1. Anatomically, the new insertion point was just below the tendon of adductor brevis and gracilis muscle and above the tendon of adductor magmus muscle.



	Modified TOT patients	<u>References</u>
No. of patients	184	1. Deb odinance P.
Mean age (range)	54.3(37-74)	Trans- obturator
BMI(range)	25.1(19.4-40.0)	urethral sling for
DM, HTN (%)	55 (34.0%)	sling for surgical
Gynecologic operation (%)	21 (13.0%)	correction of female
Symptom duration (months)	57.5	stress
Stamey grade (range)	1.67 (1-2)	urinary incontinence
Urgency (%)	112 (71.6%)	: Outside-in (Monarc)
Urge incontinence (%)	54 (59.9%)	versus
MUCP (cm H20)	52.9	inside-out (TVT-O).
MBC (ml)	398.7	Are both ways safe?
VLPP (cm H2O)	86.8	J Gynecol
CLPP (cm H2O)	103.9	Obstet Biol Reprod.
Q-max (ml/sec)	33.1	2006;35:571 -7
Q-tip >30 (%)	41.8	-7 2. Dm
1hr Pad test (gm)	49.1	ochowski R, Scarpero H,
Voided volume (ml)	231.6	Starkman J.
PVR volume (ml)	23.0	Tension-free vaginal tape
FBC (ml)	383.3	procedures. In: Wein AJ,

Kavoussi LR, Novick AC, Partin AW, Peters CA, editors. Campbell-Walsh urology. 9th ed. Philadelphia: Saunders; 2007;2251-71

3. Stamey TA. Endoscopic suspension of the vesical neck for urinary incontinence in females. Report on 203 consecutive patients. Ann Surg. 1980;192:465-71Stamey's

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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	IRB of the Seoul National University Boramae Hospital, Seoul,
	Korea
Was the Declaration of Helsinki followed?	Yes
Was informed consent obtained from the patients?	No