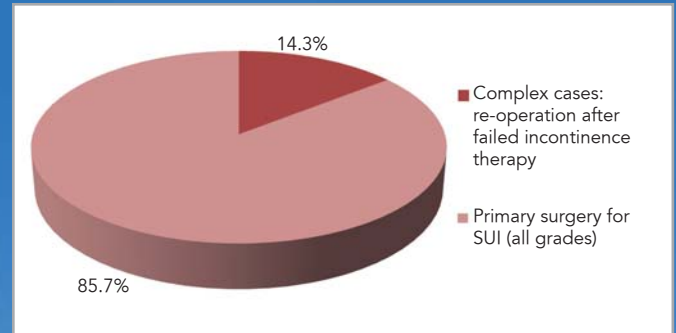
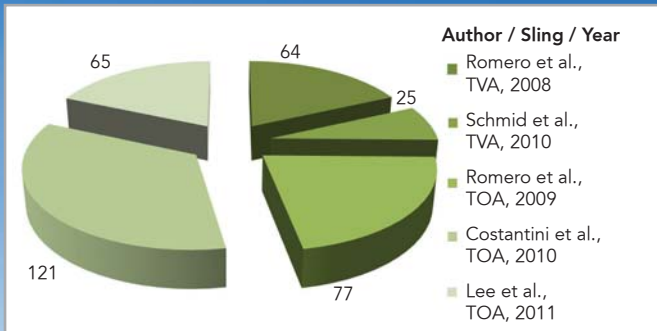


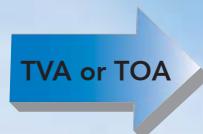
TVA / TOA Adjustable Slings for Female Incontinence

Clinical Results

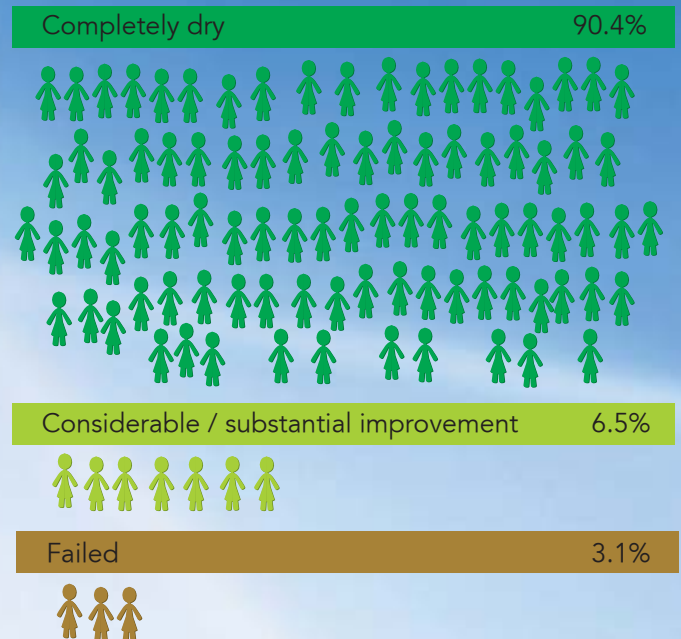
Studies



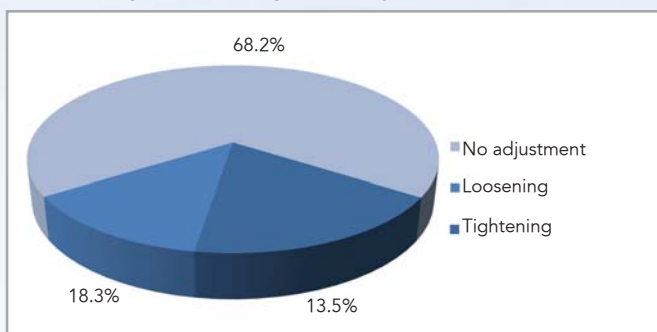
352 patients treated



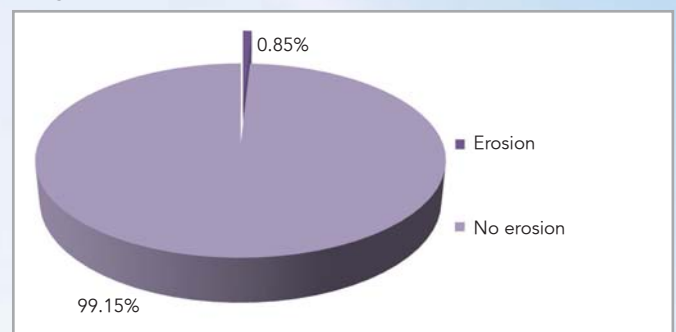
Results



31.8% of patients required adjustment



Very low erosion rate: 0.85%



Publication	Number of patients	Follow-up	Erosion (n / %)
 Romero et al., 2008: Transvaginal adjustable tape: an adjustable mesh for surgical treatment of female stress urinary incontinence <i>Int Urogynecol J Pelvic Floor Dysfunct.</i> 2008 Aug;19(8):1109-16. Epub 2008 Mar 20.	64 TVA	12 - 60 months	0
 Schmid et al., 2010: An Adjustable Sling in the Management of Recurrent Urodynamic Stress Incontinence after Previous Failed Midurethral Tape <i>Neurourol Urodyn.</i> 2010 Apr; 29(4):573-7.	25 TVA	3 - 16 months	0
 Romero et al., 2009: Transobturator adjustable tape (TOA) permits to correct postoperatively the tension applied in stress incontinence surgery <i>Int Urogynecol J Pelvic Floor Dysfunct.</i> 2009 Jul;20(7):797-805 Epub 2009 Apr 24.	77 TOA	12 - 52 months	1 / 1.3%
 Costantini et al., 2010: Transobturator adjustable tape (TOA) in female stress urinary incontinence associated with low maximal urethral closure pressure <i>Arch Gynecol Obstet.</i> 2010 Sep;282(3):277-84. Epub 2009 Oct 28.	121 TOA	13 - 36 months	2 / 1.4%
 Lee et al., 2011: Transobturator adjustable tape for severe stress urinary incontinence and stress urinary incontinence with voiding dysfunction <i>Int Urogynecol J Pelvic Floor Dysfunct.</i> 2011 Mar;22(3):341-6. Epub 2010 Oct 8.	65 TOA	6 months	0

Romero et al., 2009

"In conclusion, our results show that persistence of stress incontinence and the development of obstruction after surgery depend largely on the tension applied to the mesh, looser or tighter, during the procedure. They also demonstrate that the transobturator approach (TOA), like the transvaginal procedure (TVA), allows postoperative adjustment of tension thus permitting correction of postoperative incontinence or obstruction. This does not increase surgical complications."

Schmid et al., 2010

"Detrusor pressure at maximum flow rate (pdet/Qmax) increased significantly as did the maximum urethral closure pressure (MUCP). Patient satisfaction improved significantly."

"Adjustable slings in women with stress urinary incontinence might be indicated in difficult situations after surgical failure."

Costantini et al., 2010

"With this adjustable sling, the obturator route could be an excellent, reliable method of treating patients with urinary incontinence due to MUCP \leq 20 cm H₂O."

Lee et al., 2011

"Our results support the use of TOA as an effective modality for the treatment of SUI in women at risk for persistent postoperative SUI or obstructive symptoms."



Abstracts

Romero et al., 2008

Transvaginal adjustable tape: an adjustable mesh for surgical treatment of female stress urinary incontinence

After transvaginal adjustable tape, approximately 15% of patients still suffer incontinence, and voiding dysfunction is present in a relatively important number of patients. Transvaginal adjustable tape (TVA) permits postoperative readjustment of tension, suggesting that better results could be obtained. Sixty-four incontinent women received TVA. Patients were monitored 1, 6, and 12 months post-surgery and annually thereafter by medical history, cough stress test, flowmetry and post-void residual test (PVR), incontinence quality of life, International Consultation on Incontinence Questionnaire-Short Form, and Patient Global Impressions of Improvement (PGI-I) questionnaires. After adjustment, all patients rendered continent, and none had PVR. On no occasion was vesical catheterization or uretholysis necessary. Mean follow-up was 40 ± 12.9 months. Objective and subjective cure rate were 94% and 56%, respectively. Q_{max} was 22.3 ± 9.9 ml/s. The PGI-I questionnaire showed 94% of patients to be better or very much better than before. Our data suggest that with TVA tape, better results can be obtained, furthermore, without increasing surgical complications.

Schmid et al., 2010

An Adjustable Sling in the Management of Recurrent Urodynamic Stress Incontinence after Previous Failed Midurethral Tape

Objective The aim of this prospective study was to evaluate the feasibility and outcome of an adjustable sling system AMI in patients with recurrent urinary stress incontinence after failed suburethral sling insertion.

Patients and Methods Twenty-five patients with recurrent urinary stress incontinence treated with an adjustable sling system AMI were analyzed for feasibility and outcome. Patients' incontinence bother was quantified using the Visual Analogue Scale (VAS) from 0 to 10. Multichannel urodynamics and pad tests were pre- and postoperatively performed. Time of adjustment, time of the surgical intervention, and clinical outcome were also recorded.

Results Twenty-five patients were treated with the adjustable sling system AMI. Median time of adjustment was 3 days (range 1–8) and a median follow up time of 12 months. Twenty-one out of 25 patients were continent, four patients suffered from persisting incontinence. One patient was put on clean intermittent self-catheterization (CISC). Detrusor pressure at maximum flow rate (pdet/Qmax) increased significantly as did the maximum urethral closure pressure (MUCP). Patient satisfaction improved significantly.

Conclusion Adjustable slings in women with stress urinary incontinence might be indicated in difficult situations after surgical failure. As we present a selective group of patients these findings may not apply to other patients with recurrent stress incontinence.

Romero et al., 2009

Transobturator adjustable tape (TOA) permits to correct postoperatively the tension applied in stress incontinence surgery

Introduction and hypothesis The adjustable transvaginal tape (TVA) has shown to allow adjustment of tension thus permitting correction of postoperative incontinence or obstruction. An adjustable transobturator mesh has been checked.

Methods Seventy-seven incontinent women received transobturator adjustable tape (TOA). Patients were monitored 1, 6, and 12 months post-surgery and annually thereafter by medical history, cough stress test, flowmetry, post-void residual (PVR), and incontinence quality of life, international consultation on incontinence-short form, and patient global impressions of improvement (PGI-I) questionnaires.

Results After adjustment, all patients rendered continent; none had PVR. On no occasion was vesical catheterization necessary. Mean follow-up was 24.7 ± 10.3 months. Objective cure rate was 90% with 6.5% having greatly improved. The PGI-I questionnaire showed 90.7% of patients to be better or very much better than before. Q_{max} was 21.3 ± 7.2 ml/s. No infection was identified. Vaginal extrusion occurred in one patient.

Conclusions Our data demonstrate that the TOA allows postoperative adjustment of tension thus permitting correction of postoperative incontinence or obstruction.

Costantini et al., 2010

Transobturator adjustable tape (TOA) in female stress urinary incontinence associated with low maximal urethral closure pressure

Purpose To determine the success rate of transobturator adjustable tape (TOA, Agency for Medical Innovations, A.M.I., Austria) in stress urinary incontinent patients with maximal urethral closure pressure (MUCP) ≤ 20 cm H₂O compared to those with MUCP > 20 cm H₂O.

Materials and methods In this retrospective study, all female patients with a diagnosis of stress urinary incontinence underwent TOA, from September 2005 to August 2007. All patients had preoperative multichannel urodynamic tests (cystometry, urethral profile and uroflowmetry). During September 2008, patients were contacted by telephone and the validated short forms of the Urogenital Distress Inventory (UDI-6) questionnaire and the Incontinence Impact Questionnaire (IIQ-7) were administered.

Results The chart review identified 146 patients (125 with MUCP > 20 cm H₂O and 21 with MUCP ≤ 20 cm H₂O) who had undergone TOA and who met the inclusion criteria. Of these, 121 patients (82.9%) were contacted by telephone. Results showed a very good quality of life (score 0–7 in the IIQ-7) in 95.9% of patients. Only two (1.6%) patients had persistent significant urine leakage related to physical activity. In the MUCP ≤ 20 cm H₂O group, 90% of patients could be considered as being very satisfied, with a very good quality of life.

Conclusion With the TOA procedure, the obturator route could be used to treat patients with urinary incontinence and also with low MUCP.

Lee et al., 2011

Transobturator adjustable tape for severe stress urinary incontinence and stress urinary incontinence with voiding dysfunction

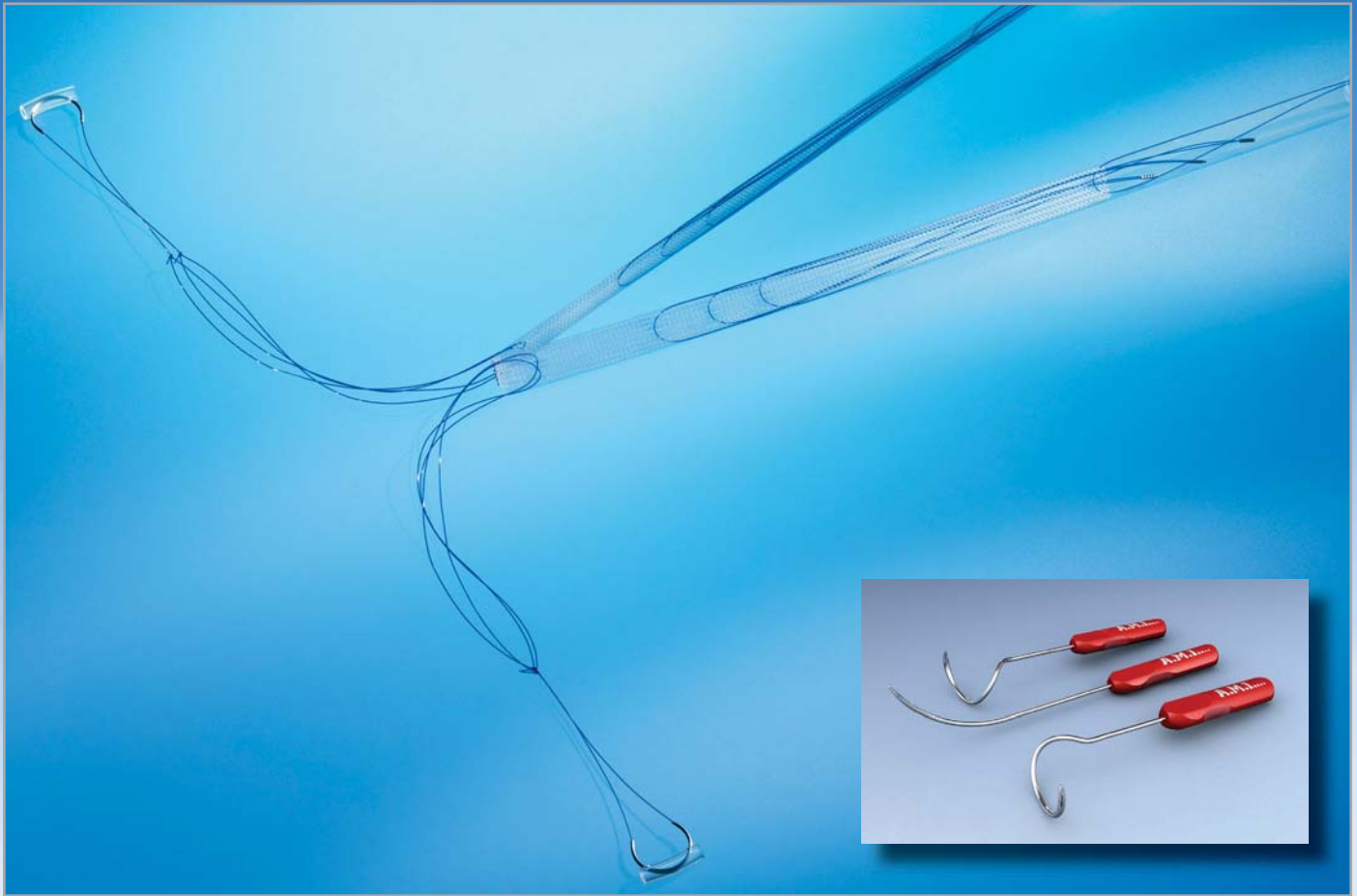
Introduction and hypothesis This prospective multicenter study was conducted to evaluate the efficacy and safety of an adjustable mid-urethral sling (MUS) using transobturator adjustable tape (TOA) in women with severe stress urinary incontinence or combined stress urinary incontinence (SUI) and voiding dysfunction (VD).

Methods One day after placement of TOA, the tension was adjusted. Six months after surgery, changes in several questionnaires and uroflowmetry (UFM) parameters were evaluated.

Results Among the 65 women enrolled in the study, 27 (41.5%) required postoperative tension readjustments. At 6 months, the complete cure rate of SUI was 84.4%, and patient satisfaction with the operation was 86.2%. There was improvement in the total scores on several questionnaires. There were no significant changes in postoperative UFM parameters.

Conclusion Our results support the use of TOA as an effective modality for the treatment of SUI in women at risk for persistent postoperative SUI or obstructive symptoms.

TVA / TOA Adjustable Slings for Female Incontinence



In brief:

- Non-elastic monofilament polypropylene:
Soft, but firm enough lengthwise to provide the necessary support
- Optimally-sized pores:
Allow seamless tissue integration, thereby reducing risk of infection
- Integrated sutures:
Enable two-way tension adjustment up to five days after implantation with active patient participation

Why adjustability?

- Difficult cases of persisting incontinence or urinary retention can be counteracted post-operatively with no surgical reintervention
- Particularly effective means of treating high-risk groups (e.g. combined SUI and voiding dysfunction), severe SUI, or patients in whom previous suburethral sling implantation has failed