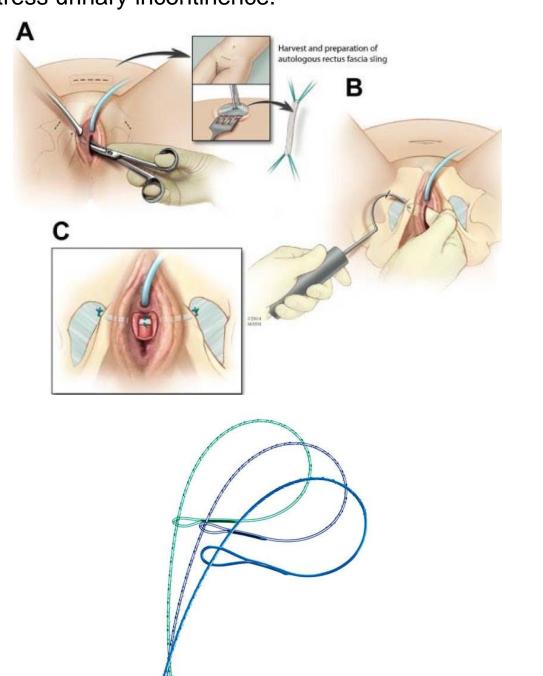


# Outcome evaluation of modified autologous fascial sling operation in female patients with stress urinary incontinence

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#### Introduction

Stress urinary incontinence (SUI) have severe negative impact on the quality of life in women. Although synthetic mid-urethral sling surgery has been considered as the standard surgical treatment worldwide, artificial mesh related complications become an important issue in several countries. The old-fashioned usage of rectus fascial sling is an alternative to reduce adverse events. We evaluated the treatment outcome of modified autologous trans-obturator fascial (TOF) sling operation applied to the female patients with stress urinary incontinence.



# Results

	Before operation	After operation	p-Value
UDI-6	11.55±5.47	3.67±3.72	< 0.001
IIQ7	10.21±5.79	0.85±3.67	< 0.001
OABSS	6.06±4.03	3.06±2.90	< 0.001
CGI-I		2.00 ± 0.80	

UDI-6	Before operation	After operation	p-Value
Frequency	2.03±1.70	0.79±1.11	< 0.001
Urine leakage when urgency	1.79±1.69	0.52±1.09	< 0.001
Urine leakage when physical activity	3.61±0.75	0.55±1.00	< 0.001
Small amounts of urine leakage	2.48±1.58	0.48±0.97	< 0.001
Difficult emptying	1.15±1.46	1.06±1.41	0.744
Lower abdominal pain	0.48±1.14	0.27±0.80	0.335

- Mean follow up time: 13.18±9.41 months
- 18 patients have no significantly decreasing maximal flow rate after receiving sling surgery (p=0.804)
- Regarding the complications of surgery, there are two patients (5.88%) reported voiding dysfunction, one patient (2.94%) inguinal pain and one patient (2.94%) mild erosion after operation.

# **Methods and Materials**

# Data source

This retrospective study was conducted in one medical centers in Northern Taiwan.

#### Patient population

Patient who met the following criteria were enrolled in this study:

- Confirmed diagnosis of stress urinary incontinence
- Age ≥ 20 years
- Have received
- Modified autologous trans-obturator (TOF) sling operation

#### Follow-up

All questionnaires were collected at the timepoint before and after sling surgery

### <u>Outcome</u>

- The score of Urinary Distress Inventory, Short Form (UDI-6), Incontinence Impact Questionnaire, Short Form (IIQ7), Overactive Bladder Symptom Score (OABSS)
- Clinical Global Impressions scale- Improvement (CGI-I)
- Adverse events

## **Discussion**





- Self-locking TO fascia sling
- -Tiny puncture wound
- -Convenient to monitor tensioning
- -Avoid retro-pubic approach-related complication
- -Possibility to adjust tension after surgery

#### **Conclusions**

- Modified TOF sling surgery is feasible and an alternative treatment for SUI patients.
- In addition to significant improvement in urinary continence, few post-operative complications were reported in this study.

#### References

1. Linder, B. J., & Elliott, D. S. (2015). Autologous transobturator urethral sling placement for female stress urinary incontinence. The Journal of urology, 193(3), 991-996.