

POD-1.06

Male slings: a comparative study of two techniques

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Introduction and Objective: To determine efficacy of bone anchored male sling (BAMS) versus transobturator male sling (TOMS) and identify pre-operative risk factors contributing to success and/or failure.

Methods: A retrospective chart review was performed from 2000-2010 of patients who underwent BAMS and TOMS. Patients with follow-up time <1.5 months were excluded. Data examined included demographics, urodynamic parameters, pad usage, presence of detrusor overactivity (DO), and previous urethral disease. Failure was defined <50% improvement. Pre-operative risk factors for failure were analyzed using Student t test, Wilcoxon test, Fisher's Exact test, and logistical regression. A p-value <0.05 was considered statistically significant.

Results: Fifty-nine of 64 patients with a mean age of 69.4 years \pm 9.3 were analyzed. Five were excluded for inadequate follow-up. Forty-one received BAMS and 18 received TOMS with median follow up of 9 months (1.5-96) and 7 months (1.5-14) respectively (p= 0.1).

Conclusion: Males undergoing TOMS placement have lower failure rates. Males with pre-operative increased pad usage, low MUP, low LPP, and presence of UD may not be appropriate candidates for male sling.

Table I, POD-1.06. Pre-operative Characteristics for Male Slings

Total patients (n=59)	BAMS (n=41)	TOMS (n=18)	P Value
Pads/day (Median & IQR)	4.0 (2.0-5.0)	3.0 (2.0-5.3)	ns
LPP (Mean & SD)	70.3 \pm 45.8	83.8 \pm 34.5	ns
MUP (Mean & SD)	53.6 \pm 40.2	86.7 \pm 30.2	0.0067
FL (Mean & SD)	3.1 \pm 1.4	3.5 \pm 1.0	ns
DO	13 (31.7%)	3 (16.7%)	ns
UD	23 (56.1%)	7 (38.9%)	ns

(LPP)= Abdominal Leak Point-pressure, (MUP)= Maximal Urethral Pressure, (FL)= Functional Profile Length, (DO)= Detrusor Overactivity, (UD)= Urethral Disease, (SD)= Standard Deviation, (IQR)= Interquartile Range
Peri-operative decrease in pad usage was statistically significant for the TOMS group (3 to 1.5, p<0.004) compared to the BAMS group (4 to 3.5, p=0.3). Failure rate was 46.3% (19/41) in BAMS and 16.7% (3/18) in TOMS (p=0.03).

Table II, POD-1.06. Pre-operative Risk Factors for Failed Sling Procedures

Risk Factor	P value
LPP	0.0032
FL	ns
MUP	0.0246
DO	ns
UD	0.0118

(LPP)= Abdominal Leak Point-pressure, (FL)= Functional Profile Length, (MUP)= Maximal Urethral Pressure, (DO)= Detrusor Overactivity, (UD)= Urethral Disease