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MINI SLING: DOES IT WORK FOR LOW COUGH LEAK POINT PRESSURES?

Hypothesis / aims of study
Mini-Slings involve less Prolene Mesh (8 cms) vs TVTO (45 cm) or TVT (45 cm). Additionally there is less dissection with Metz and Trocars so it may be the least minimally invasive approach for stress incontinence (SI) and may become office based. How well it will succeed with regard to a range of Cough Leak Point Pressures (CLPP) has not been well ascertained.
Study design, materials and methods
Between August 2006 and August 2008 we performed 108 TVT Secur's (Gynecare, Somerset, New Jersey, USA) under local anesthetic and intravenous sedation. All patients had a complete history and physical examination, videourodynamic and cystoscopy. All patients were followed in the office at 6 weeks, 6, 12, and 24 months (latter two were feasible). Patients performed 5 strong, consecutive, coughs in the office with a minimum of 150 mls in the bladder in both the dorsal lithotomy and standing position any immediate leakage was determined a failure. If patient still related a stress incontinence episode she then had a 30 minute provocative pad test with indigo carmine performed or repeated videourodynamics. Failure were stratified as per range of Cough Leak Point Pressure's. No concomitant procedures were performed other than cystoscopy.

Results
With a median follow-up of 21 months were had an overall success rate of 88 percent. With a success rate distribution per CLPP; Group 1= 94 percent (>90 cm H_2O, n=), Group 2=89 percent (70-89 cm H_2O), Group 3=72 percent (50-69 cm H_2O) (Comparison of Group 1 and 2 versus 3 demonstrate a significantly less success rate $p<0.01$). De novo urgency per group was 11, 10, 14 percent and vaginal exposure was likewise 6, 7, 4 percen
Interpretation of results
In the short term Mini Slings provide excellent resolution of SI with a Cough Leak Point Pressure greater than 70 cm H_2O but a statistically significant diminished result with lower CLPP < 70 cm H_2O.
Concluding message
Mini Slings may be less successful in patients with a low Cough Leak Point Pressure.

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?	**No**
This study did not require eithics committee approval because	**No**
Was the Declaration of Helsinki followed?	**Yes**
Was informed consent obtained from the patients?	**Yes**