UTSouthwestern Medical Center

INTRODUCTION

- The artificial urinary sphincter (AUS) is the gold standard for severe stress urinary incontinence (SUI)
- Urethral tissue damage due to multiple AUS cuff erosions, prior radiation, or otherwise complex reconstructive history may preclude AUS replacement or urethral restoration
- Alternatives such as formal supravesical diversion and/or bladder neck closure are associated with significant morbidity and mortality

OBJECTIVE

 To further evaluate our experience with permanent urethral ligation (PUL) with chronic suprapubic tube (SPT) drainage for men with persistent severe SUI and a frail, end-stage urethra

METHODS

- Retrospective chart review of PUL cases from 2014-2020
- End-stage urethra: two or more prior failed urethral interventions and lacking adequate healthy urethra to allow subsequent AUS cuff placement
- Quality of life assessments via telephone:
 - Michigan Incontinence Symptom Index (M-ISI)
 - Patient Global Index of Improvement (PGI-I)

Long-Term Outcomes of Permanent Urethral Ligation for Incontinent Men with End-stage Urethra

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Table 1: Patient Chara

Mean age (SD)

Prior urethral surgeries AUS History of cuff erosion Multiple erosion events Average no. erosions (range) Dilation of stricture Urethroplasty Urethral Sling Urethral Stent

Radiation therapy

Figure 1: View of dissected bulbar urethra after transection, with the distal urethral stump left open to allow drainage from the surgical site



18/20 (90%) men were continent at a median follow-up of 27.5 months (IQR 15.6 - 48.8)

90¹

acteristics	
PUL (n=20)	
75 (± 8.2)	
18 (90%) 18 (100%) 10 (56%) 2 (1-3) 9 (45%) 6 (30%) 3 (15%) 2 (10%)	* Underwent cystectomy (months post due to sever and urgency to SPT
5 (25%)	
	Qu
RESULTS	13/14 m

• 15 (75%) after initial surgery • 3 (15%) after repeat ligation (mean 4 months post-op) 1 currently scheduled for repeat ligation

1 elected perineal urethrostomy at outside hospital

)-day	Complications	

- Bladder spasms
- Urinary tract infection
- Cellulitis
- Abscess
- Urethral recanalization

11 (55%) 8 (40%) 3 (15%) 2 (10%) 2 (10%)

4 (20%)

M-ISI

PGI-I Improvement in QOL

Would recommend PUL to others

- life



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Average severity score (0-32) Average bother score (0-8)

1.4 (range 1-8) 0.6 (range 0-4)

13/13 (100%)

13/13 (100%)

CONCLUSIONS

• PUL with chronic SPT drainage is a viable option that can restore continence and improve quality of

 Patients should be counseled that cystectomy may often be required