

# Abstract #374: The Role of Video-Urodynamics in the Evaluation of Post-Prostatectomy Incontinence

## Hypothesis / Aims Of Study

- Ongoing debate concerning the optimal investigation for patients with post-prostatectomy incontinence (PPI)
- No clear indications for the use of standard urodynamics (SUDS) or video-urodynamics (VUDS) for the investigation of PPI

**Aim:** Explore the role of SUDS and VUDS in the investigation of PPI and determine if they have an impact on its management

## Study Design, Materials And Methods

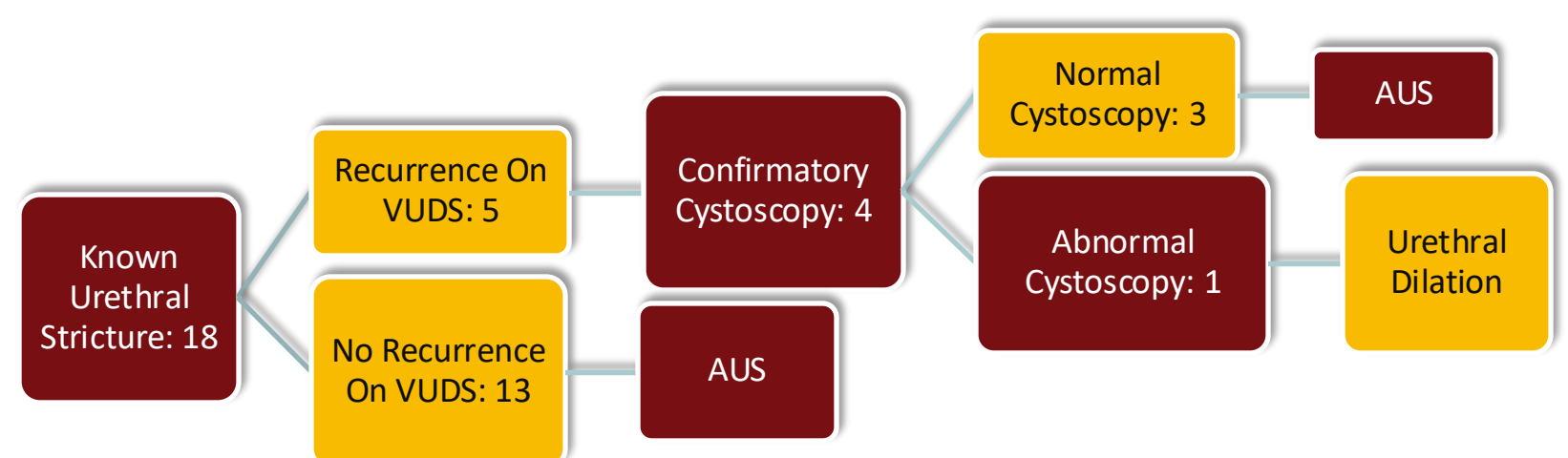
- Retrospective chart review of UDS database of male patients with PPI: between 2012-2023, single high volume tertiary center
- UDS performed in every patient with PPI when surgery considered
- Comparison of clinical and UDS diagnoses
- Analysis of management of all patients who underwent UDS
- Comparison of findings on fluoroscopy vs. cystoscopy for patients with suspected urethral stricture

## Results

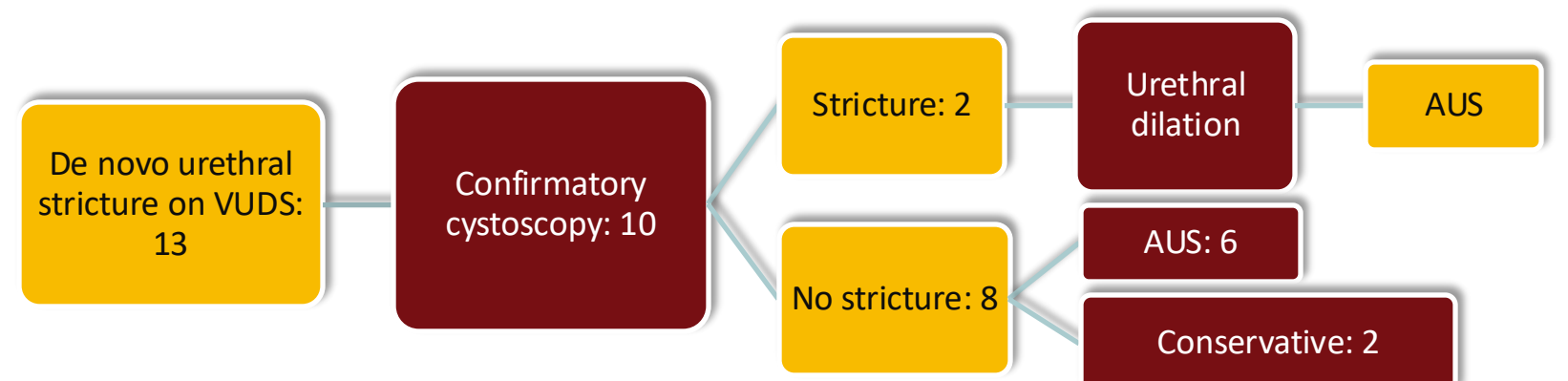
**Table 1. Clinical And Urodynamic Diagnoses**

SUI	256 (100%)
OAB	74 (29%)
UAB	2 (1%)
USI	227 (88.7%)
DO/DOI	145 (56%)
DUA	80 (31.3%)
Decreased compliance	11(4.3%)
MUCP [average (range)]	40.3 cm H <sub>2</sub> O (0, 100)
Urethral functional length [average (range)]	10.1 mm (2, 27)
Urethral stricture, de novo	13 (5.1%)
Urethral stricture, recurrent	5 (2.0%)

**Figure 1. Known urethral stricture**



**Figure 2. De Novo Urethral Structure**



**Table 2. OAB vs. DO/DOI**

No OAB with DO/DOI	70 (32.3%)
OAB, no DO/DOI	35 (16.1%)
OAB with DO/DOI	54 (24.9%)

## Interpretation Of Results

- UDS: important in the investigation of PPI
- Can assist in clinical decision making
- Potentially avoided unnecessary surgery in 12.8% of patients
- Weak correlation between clinical diagnosis of OAB and DO/DOI
- One of the first studies to explore the role of VUDS for the evaluation of PPI
- No identification of high-risk patients
- Urethral narrowing in a minority of patients
- Weak correlation between cystoscopy and VUDS for the diagnosis of urethral stricture
- SUDS + cystoscopy: more instrumentation and higher cost
- VUDS should be included in the investigation of every patient with PPI in whom surgery is being considered
- Limitations: retrospective, single center study

## CONCLUSIONS

- UDS: valuable diagnostic tool for the assessment of PPI
- Important impact on the management of male SUI
- VUDS more advantageous than SUDS
- SUDS + flexible cystoscopy: good alternative to VUDS
- Need for updated guidelines

## REFERENCES

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2. Sandhu JS, Breyer B, Comiter C, Eastham JA, Gomez C, Kirages DJ, et al. Incontinence after Prostate Treatment: AUA/SUFU Guideline. *J Urol.* 2019;202(2):369-78.
3. Bhatt NR, Pavithran A, Ilie C, Smith L, Doherty R. Post-prostatectomy incontinence: a guideline of guidelines. *BJU Int.* 2023.