Self Urethral Dilatation for Urethral Stricture: Prince of Wales Hospital Experience

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Objectives of Study

- Evaluate the effectiveness of intermittent self urethral dilatation (SUD)
- Assess cost-effectiveness
- Assess clinical improvement of urine outflow
- How it affects Quality of Life

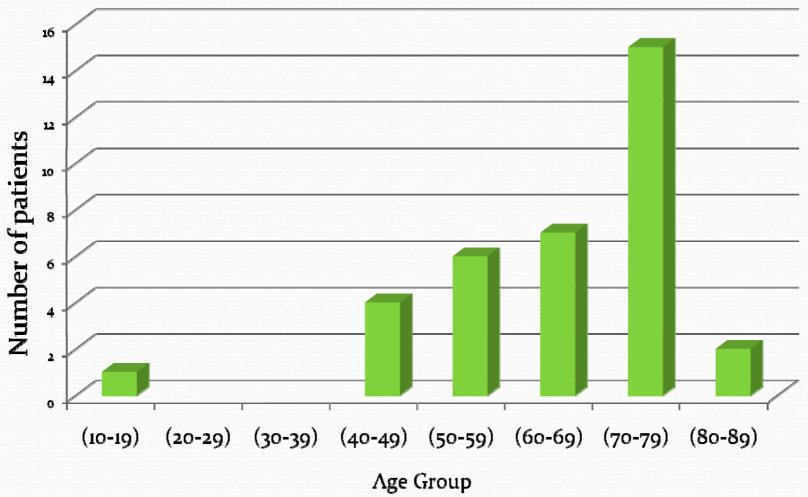
Procedures of Self Urethral Dilatation

- A clean procedure
- A fine filiform/Nelaton's catheter passes through the narrowing parts until resistance is reachedhold it for ~20 min
- Gradually step up the diameter of the catheter (Fr 12-18)
- Require several session
- Frequency of dilatation and selected materials are based on individual needs and tolerance

Materials and Methods

- Retrospective review
- From Documentary database
- Time period: Sep 2000 July 2009
- Total patients n = 35
- 25 male 10 female

Age Distribution on Urethral Stricture



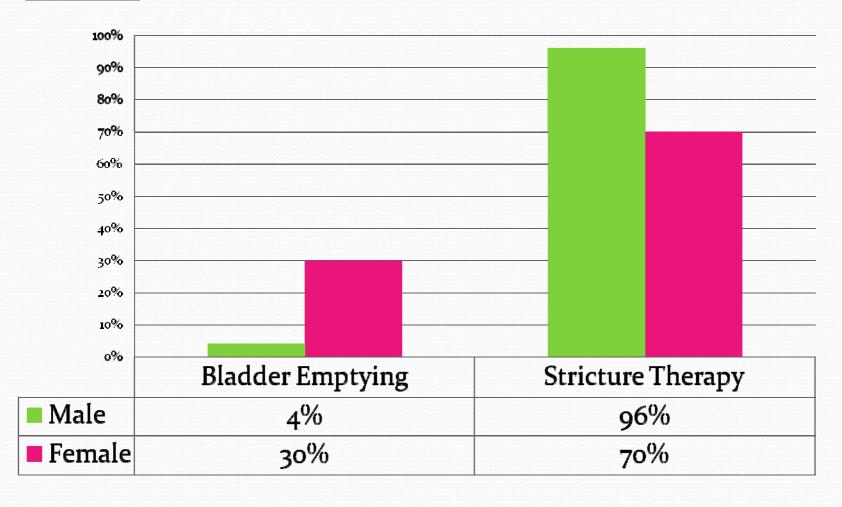
Age Range: 19 - 87 Mean age: 65.3

First Presentation

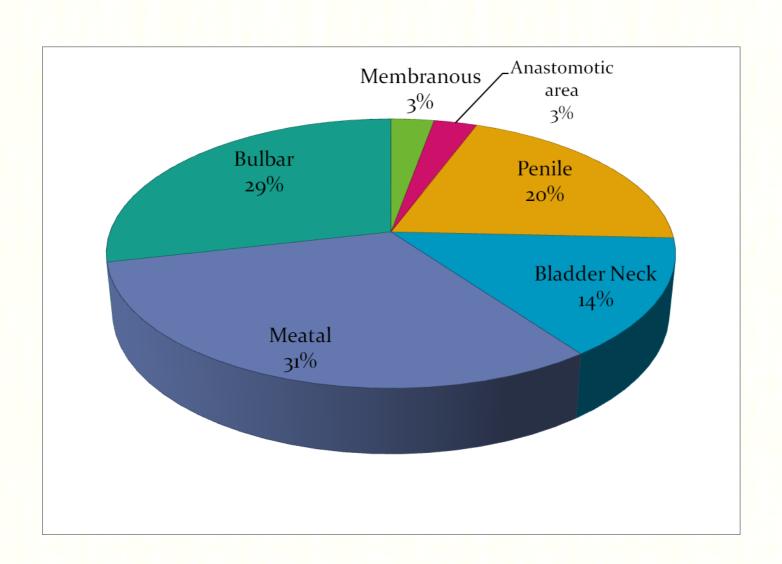
• 77% - Weak stream of urine

• 23% - AROU

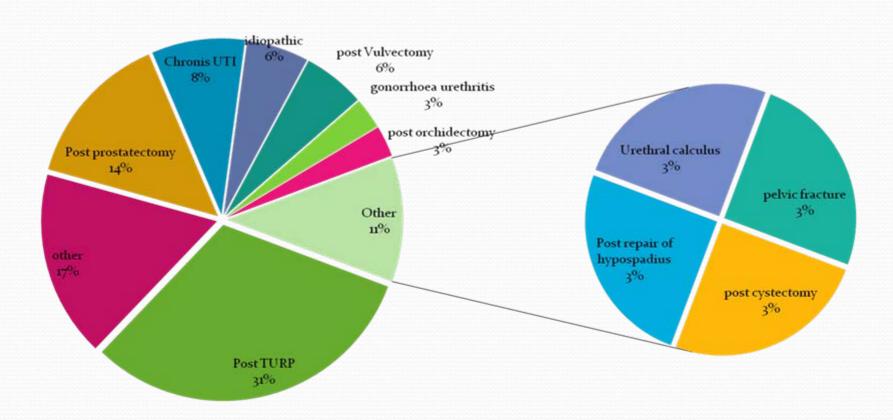
Causes of Performing Self Urethral Dilatation by Gender



Location and Incidence (Male)

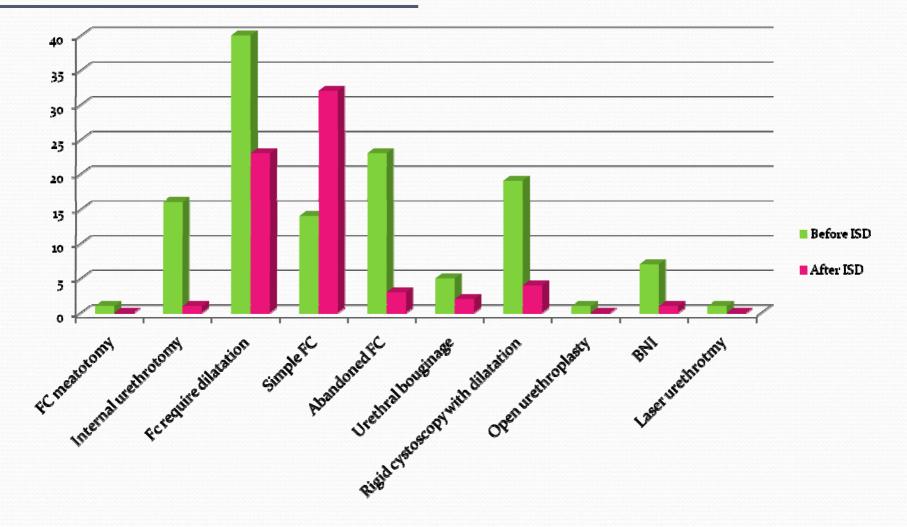


Etiology of Urethral Stricture



Cost-effective?

Procedures Done Before and After Self Urethral Dilatation



Urine flow improved?

Mean Q max Before and After SUD

1 st Visit	1 Month After SUD
13.4 ml/s	18.9 ml/s

p < 0.05 (paired t-test)

Mean Voided Volume Before and After SUD

1 st visit	1 Month After SUD
201.3ml	292.3ml

p <0.05 (paired t-test)

Complication During SUD

Complication	Number of Incidence
Urinary Tract Infection	One

Positive social life impact?

- Questionnaire
 - Filled up by patient during FU
 - Contacted by nurses through telephone
- 25/35 responded

參考網	編號□□□□□□ 請貼上病人	口口 LABEL 日/月/年	F					日期: □□		
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2. 性5	引: 男性□	女性□								
3. 你不	有沒有依從醫護人	員的指示去進	進行自我尿道	道擴張?						
□大計□ 大計□ 間に□ 小計	全跟隨 部份時間跟隨 中跟隨 部份時間跟隨 全不跟隨									
	行自我尿道擴張時 沒有困難, 10- 嚴重		合適程度)							
o 沒有[1 困難	2	3	4	5	6	7	8	9	10 嚴重困難
5. 進行 (o - :	行自我尿道擴張時 完全接受, 10- 不能	的接受程度? 接受;請圈出	合適程度)							
o 完全i	I 接 受	2	3	4	5	6	7	8	9	10 不能接受
	括而言,自我尿道排 完全沒有影響,10-									
	1 沒有影響	2	3	4	5	6	7	8	9	10 嚴重影響

問卷完,多謝

Quality of Life

Score 0-3 (positive impact)	Score 8-10 (impaired QOL)
72%	12%

Patient's Compliance

Score 1 (totally follow instructions)	Score 4-5 (never follow)
64%	0%

Perceived Difficulties

Score 0-3 (no difficulty)	Score 8-10 (severe difficulty)
56%	16%

• Procedure Tolerance

Score 0-3 (totally tolerate)	Score 8-10 (cannot tolerate)
64%	8%

Conclusion

- Self urethral dilatation -- a viable and effective treatment option for urethral stricture.
- Urine outflow/voided volume were improved
- procedures related to stricture treatment
- Patients tolerated the procedure well
- Good impact towards their QOL

Suggestion

• Consider offer a trial of self calibration program after single urethral dilatation/operation to stabilize the stricture — recurrence rate

 Serve as an alternative treatment option when patients cannot tolerate reconstructive surgery / urethroplasty due to old age or unwillingness.

Thank You!

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