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Experience of REZUM as a Day Case Procedure in PMH

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Objectives:

- ➤ To summarise the experience of Rezum in a single regional Urology centre
- ► To evaluate the feasibility and safety of Rezum as a day case procedure

Introduction:

- ▶ Benign prostate hyperplasia (BPH) is one of the most common presenting urological complaints affecting more than 40% of men in their 50s.¹
- ➤ The resulting lower urinary tract symptoms (LUTS) pose significant impact on patients' quality of life.
- Patient with refractory symptoms despite medical treatment or complications from BPH could be considered for surgical intervention.
- ➤ Transurethral resection of prostate (TURP) is a gold standard intervention but carries a relatively high complication rate and mean hospital stay of 2 to 3 days.²
- ➤ Transurethral Water Vapour Therapy (Rezum) is a novel minimally invasive technology for treatment of BPH.

Rezum:

- ➤ Convective water vapour energy using radiofrequency (RF) energy
- ➤ The system comprises of a RF generator and a single-use sterile transurethral delivery device



(Figure 1: component of REZUM system³)



(Figure 2: cystoscopic view of REZUM)

Patients and Methods:

- ▶ A total of 70 patients with moderately enlarged prostate (30-80cc) underwent Rezum with LA and IV sedation from 2/2022 to 8/2022 in PMH
- ▶ Age ranged from 52-92 (average 73.6)
- Most of them had multiple comorbidities with an average Charlson comorbidity score 5
- ▶ 32.9% of them were on antiplatelet or anticoagulant
- Average prostate size was 53.4 ± 15.1 cc
- ► 35.7% of them had median prostate lobe

 Indication Bothersome Refractory Obstructive LUTS retention uropathy

Number (%) 11 (15.7%) 40 (57.1%) 19 (27.1%)

- ▶ 84.3% of them were catheter-dependent
- ► Average pre-procedure IPSS and IPSS-QOL were 18.7 and 3.68 respectively

Results:

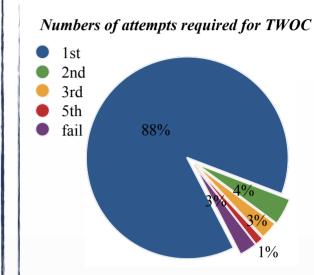
- ▶ OT duration: 20.9 ± 7.8 mins
- ▶ Same day discharge rate was 84% (59 over 70)



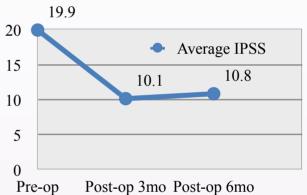
- *5 for patient's preference
- *3 were on antiplatelet/ anticoagulant requiring over-night observation
- *1 had hyponatraemia
- * 1 had hypotension responsive to fluid replacement
- *1 needed pre-operative IV antibiotics
- ▶ 30-day re-admission rate was 4.3% (3 over 70)
- *Due to haematuria on Foley, slipped Foley and blocked Foley respectively
- Complications:
- *0 intra-op complication
- *2.9% (2 over 70) had urinary tract infection
- *0 de-novo sexual dysfunction

▶ TWOC

- *Overall success rate 97.1% (67 out of 69) (1 patient passed away due to pneumonia before TWOC)
- *88.4% (61 out of 69) were successful on their first attempt of TWOC
- *3 patients required 2nd attempts
- *2 patients required 3rd attempts
- *1 patient required 5th attempts
- *1 patient failed to wean off catheter despite 5th attempts eventually requires long term catheter
- *1 patient failed 3rd attempts await further trials



- Among the 42 patients due for 3-month follow-up and 22 patients due for 6-month follow-up:
- *IPSS-QOL reduced 49.2% at 3-month and 45.7% at 6-month compared to baseline



*IPSS-QOL reduced 50% at 3-month and 38.9% at 6-month

Conclusions and future works:

- Our centre has demonstrated Rezum as an effective day case procedure for patients with moderately enlarged prostate from bothersome LUTS to catheter dependency
- Long term follow-ups are required to evaluate the durability of treatment effect and safety profile
- Use of Rezum on larger size prostate is promising in literatures⁴ but requires more local study to establish applicability in our locality

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Disclosure:

The authors declared no conflict of interest.

