Abstract number : 554 **Retrospective Analysis on the Safety and Innocuity of Monopolar Transurethral Resection** of Prostate as Outpatient Day-Care Surgery



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Introduction

- Newer technologies in the treatment of BPH are advocated to reduce complications and length of hospital stay compared to monopolar TURP.
- At our center, many patients have undergone mTURP as a day care surgery (DCS) in contrast to the usual post-operative hospitalisation (POH).

Objectives

Results

- 628 medical records - 362 mTURP included - 52% DCS (187/362) - 48% POH (175/362)
- Same complication rate: 22% of ER consultation at 30 days, 11% hematuria, 9% UTI, 10% acute retention
- Same readmission rate: 4.4%
- No death at 30 days

Table 1: Patients demographics and major comorbidities, according to postoperative trajectories

To assess the feasibility and safety of mTURP performed as a DCS, by comparing the 30-day complication rate among DCS and POH.

Methods

Single institutional retrospective analysis of medical records of 628 mTURP performed for BPH between January 1st 2016 to March 31st 2018.

Discussion

- Retrospective study, with inherent bias
- Same rates of complications with an outpatient procedure compared to what is reported in the literature on mTURP
- Patients in DCS had bladder catheter removed within 24-48h
- Reflects real-life practice in a teaching hospital
- Average of 70 yo patients with moderate comorbidities (>60% patients with ASA \geq 2)

Conclusion

TURP using monopolar current can be safely performed as an outpatient day-care procedure for selected patients. In a cohort of patients, ranging from mild to severe comorbidities, and with a majority treated for chronic retention, no difference in the complication rate was found at 30 days between outpatient and inpatient procedure.

Patient characteristics		Total (%)	Day care surgery (DCS) (%)	Post-operative hospitalisation (POH) (%)	p-value ¹
Age (Mean - SD)		71.62 (SD: 9.48)	70.12 (SD 9.56)	73.23 (SD 9.16)	0.01
BMI (Mean - SD)		27.50 (SD: 4.70)	27.41 (SD: 4.77)	27.59 (SD: 4.63)	0.73
Preop bladder catheter or CIC		49.1	49.7	48.6	
American Society of Anaesthesiologists (ASA) score	1	13.9	14.4	13.2	0.05
	2	64.5	69.0	59.8	
	3	21.3	16.6	27.0	
Coronary artery disease		22.9	19.8	26.3	0.14
Diabetes		22.1	17.6	26.9	0.03
OSAHS		11.9	11.2	12.6	0.69
Cognitive impairment		7.2	3.7	10.9	0.01
Surgery performed under Aspirin		12.7	12.8	12.6	0.94
A/C discontinued preop		8.5	3.7	13.7	0.01
Regional anaesthesia (spinal)		71.3	71.7	70.9	0.87

1: Based on a Pearson Chi Square Test

A/C: Anticoagulation CIC: Clean Intermittent Catheter BMI: Body Mass Index

OSAHS: Obstructive Sleep Apnea-Hypopnea Syndrome **SD:** Standard Deviation

Table 2: Complication rate in 30 days postoperativeoverall and according to post-operative trajectory

Type of Complication	All patients (362) N (%)	DCS (187) N (%)	POH (175) N (%)	p-value ¹
Consultation ² in ER	79 (21.8)	41 (21.9)	38 (21.7)	1.00
Hematuria at ER consultation	41 (11.3)	21 (11.2)	20 (11.4)	0.93
AUR at ER consultation	35 (9.7)	14 (7.5)	21 (12)	0.16
Total UTI at 30 days PO	34 (9.4)	16 (8.6)	18 (10.3)	0.59
Need of 2 nd OR	8 (2.2)	0 (0)	8 (4.6)	0.00
Transfusion (≥1unit)	7 (1.9)	1 (0.5)	6 (3.4)	0.06
Deadmission	16 (1 1)	0 (1 7)	$Q(\Lambda G)$	1 0 0



1: Based on a Pearson Chi Square Test

2: 7 consultations (7.7%) for medical related issues (allergy, venous insufficiency, convulsion from cerebral metastasis, vagal syncope, dyspnea, adaptive disorder and constipation), 12 consultations (13.2%) for other urologic reasons (7 dysuria without infection, 2 bladder spasms, 1 scrotal cellulitis, 1 paraphimosis and 1 PO delirium)

AUR: Acute Urinary Retention ER: Emergency Room OR: Operating Room PO: Postoperative UTI: Urinary Tract Infection