

TRANSURETHRAL ELECTRO-VAPORISATION COMBINED WITH TRANSURETHRAL

RESECTION OF THE PROSTATE IN LARGE PROSTATES

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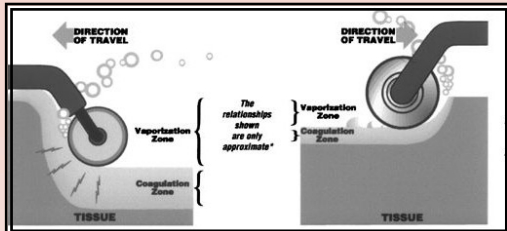


Figure 1. Tissue effect with different types of bipolar rollers

DEFINITION

Transurethral electro-vaporization of the prostate (TUEVP) is variant of transurethral resection (TURP), where roller is used to warm the prostate tissue to the point of evaporation. During the process, small blood vessels in the prostate are twisted and sealed.

PURPOSE

- Transurethral approach in prostates larger than 80gr.
- Small amount of blood loss
- Shortened operative time
- Shortened postoperative hospital stay

MATERIAL AND METHODS

- 52 patients with benign prostatic hyperplasia (BPH)
- Prostate volume 80-160 grams
- ineffective treatment with combination therapy with alpha blocker and 5ARI

RESULTS

No of cases	22	12	9	7	2
Prostate volume (ccm)	80-99	100-119	120-139	140-159	160
Perioperative time (min./mean)	40	45	50	65	75
Catheter removal (days)	1	1	2	2	2
Postoperative hospital stay (days)	1	1	2	2	2

Table 1. Patients treated with TUEVP, perioperative and postoperative characteristics

POSTOPERATIVE OUTCOMES

BLOOD TRANSFUSION	0 (0%)
SPONTANEOUS VOIDING (after catheter removal)	50 (96,2%)
IRRITANT SYMPT.	5 (9%)

Table 2. Outcomes and complications in patients treated with TUEVP

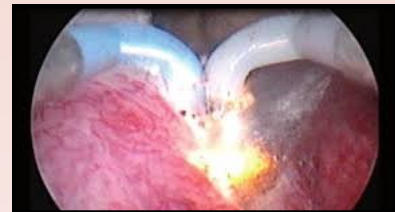


Figure 2. Beginning of TUEVP with mushroom needle



Figure 3. Electrovaporisation with mushroom needle



Figure 4. Finishing TUEVP with mushroom needle

CONCLUSION

TUEVP is advantageous option in prostates larger than 80 ccm in order to avoid intraoperative and postoperative bleeding and obtain shorter hospital stay.