



The Treatment Outcomes Of Bipolar Transurethral Resection Of Prostate Versus Holmium Laser Enucleation Of The Prostate For Large Benign Prostatic Hyperplasia

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Objective

To compare the perioperative and functional outcomes of bipolar TURP and HoLEP for large BPH

Patients & Methods

Retrospective cohort study for patients with BPH (prostate size >80 gram) who had undergone either bipolar TURP (bTURP) or HoLEP by specialists in UCH during 2017 to 2022

Results

- 128 patients included

	bTURP	HoLEP
Number of patient	51	77
Age (mean)	76.7	73.9
Prostate size (cc)	110	121

	bTURP	HoLEP	p-value
Post-op PSA reduction rate	66.4%	66.7%	<u>0.158</u>
Post-op length of hospital stay (day)	2.59	3.18	<u>0.192</u>
Post-op %Hb drop	8.8%	22.2%	<u>0.47</u>
Post-op %IPSS reduction	55.8%	31.8%	<u>0.07</u>
Post-op %TWOC upon d/c	96%	94.8%	<u>0.757</u>
Post-op %28day-readmission	3.92%	10.4%	<u>0.182</u>
Post-op 1yr %incontinence	14.9%	29.3%	<u>0.068</u>

	bTURP	HoLEP	p-value
OT time (min)	92.1	112.4	<u>0.001</u>
Vol. of prostate tissue resected (g)	56.2	83.4	<u><0.001</u>
Tissue removal efficiency (gram of tissue removed/OT time) g/min	0.63	0.76	<u>0.006</u>
Tissue removal effectiveness (gram of tissue removed/prostate size)	0.52	0.69	<u><0.001</u>

Conclusion

HoLEP vs bTURP

1. higher effectiveness
2. higher efficiency
3. longer operation time
4. no significant difference in terms of functional outcomes