

INTRAVESICAL PROSTATIC PROTRUSION IN BENIGN PROSTATIC HYPERPLASIA: DOES IT MAKE ANY DIFFERENCE IN RESULTS AFTER TRANSURETHRAL RESECTION OF THE PROSTATE?

Hypothesis / aims of study

To investigate the impact of intravesical prostatic protrusion (IPP) on lower urinary tract symptoms after transurethral resection of prostate (TURP) in patients with benign prostatic hyperplasia (BPH)

Study design, materials and methods

205 patients who underwent bipolar TURP from January 2005 to December 2009 were reviewed retrospectively. The patients were divided into IPP and non-IPP group based on pre-operative transrectal ultrasound and intra-operative cystoscopic findings. 98 IPP patients were compared to 107 non-IPP patients. Each group were compared for IPSS, quality of life (QoL), maximal flow rate (Qmax) and post-void residual urine volume (PVR) pre-operatively and 1, 6, and 12 months post-operatively.

Results

Pre-operative IPSS (voiding, storage) and QoL were statistically higher in IPP group, but Qmax and PVR showed no differences. Post-operatively, compared to pre-operative findings, IPSS, QoL, Qmax and PVR have improved statistically, but, the degree of improvement didn't show any differences between two groups (Table 1).

Interpretation of results

As the other report [1,2], IPP showed difference in symptoms especially in IPSS pre-operatively and the lower urinary tract symptoms have improved considerably after TURP. But, IPP didn't make any differences in the degree of improvement compared to non-IPP group post-operatively [3].

Concluding message

IPP, compared with non-IPP in BPH didn't make any difference in results after TURP.

Table 1 Preoperative and postoperative values of the two groups (Mean±SD)

	IPP group (n=98)				Non-IPP group (n=107)			
	Pre-op	Post-op [†]			Pre-op	Post-op [†]		
		1 month	6 months	12 months		1 month	6 months	12 months
IPSS-VS	13.8±4.8 [*]	6.6±3.1	6.4±3.4	6.7±3.6	11.9±4.2	6.4±3.6	6.0±3.4	6.1±3.6
IPSS-SS	10.9±2.4 [*]	7.3±2.8	7.9±2.2	7.2±2.8	9.1±2.8	6.1±4.3	5.7±4.9	5.8±4.4
QoL	4.6±1.0 [*]	1.7±0.8	1.4±1.1	1.5±1.2	4.1±0.9	1.3±1.2	1.2±1.1	1.2±1.0
Qmax	8.6±3.6	17.6±4.2	18.4±3.8	18.2±5.3	9.1±2.0	17.9±3.7	18.5±4.3	18.4±2.9

*p<0.05 compared with IPP group vs. non-IPP group,

† p<0.05 compared with Pre-op,

References

1. Lim KB, Ho H, Foo KT, Wong MY, Fook-Chong S. Comparison
2. Lee JM, Chung H, Kim TW, Kim HS, Wang JH, Yang SK. The correlation
3. Lee HS, Kim SJ, Song JM, Kim KJ, Chung HC

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Is this a clinical trial?	No
What were the subjects in the study?	HUMAN
Was this study approved by an ethics committee?	No
This study did not require ethics committee approval because	retrospective patients' data analysis
Was the Declaration of Helsinki followed?	Yes
Was informed consent obtained from the patients?	Yes