

THULIUM:YAG LASER VAPOENUCLEATION OF THE PROSTATE - PRESENT AND PERSPECTIVES.

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Introduction

Patients with large benign prostatic hyperplasia (BPH) (> 80 cm³) are of particular interest in selection of the surgical treatment method.

Keywords. BPH, laser surgery

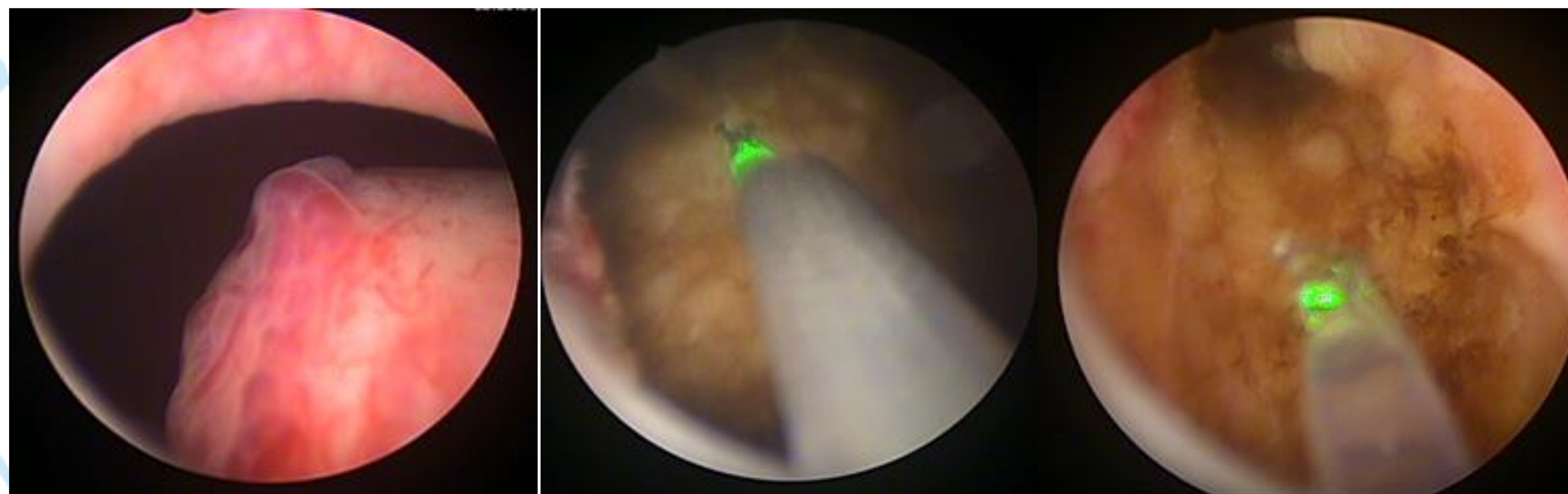


Figure 1. Intraoperative images (ThuVEP)

Purpose

Comparative evaluation of the efficacy and safety of transurethral Thulium:YAG laser vapoenucleation of the prostate (ThuVEP) and transvesical adenomectomy (AE) in patients with large BPH.

Material and methods

59 patients (64 ± 7 years) with large BPH were randomly divided into 2 groups for surgical treatment: ThuVEP - 25 patients and AE - 24 patients which were assessed at 3 months postoperatively. Hemoglobin level drop was assessed at 24 hours postoperatively.

Results

	Operative time, min	Catheterization time, days	Hemoglobin drop, g/dl	Complication rate, %
ThuVEP	93±7	1	5±2	11,2
AE	60±4	7±2	10±7	31,1

Table 1. Perioperative characteristic

	Qmax, %	PVR, %	IPSS	QoL
ThuVEP	+110±10	-80±3	12±2	2±1
AE	+100±9	-73±5	12±2	2±1

Table 2. Postoperative improvement

Conclusions. ThuVEP is a safe and effective surgical technique in patients with large BPH. Reduced trauma during ThuVEP, lower incidence of postoperative complications and the efficiency of ThuVEP, highlights the need for wide implementation of laser surgery.