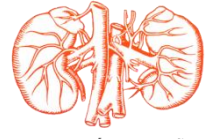


# PROSTATE VAPORIZATION. COMPARISON OF ENERGY LEVELS: GREEN LASER 120 W vs THULIUM :YAG 150 W

**C. Vargas , S. Capdevila , A. Laborda, A. Garcia Larrosa,**  
**Urology Department. Viladecans Hospital. Barcelona, Spain.**



ASOCIACIÓN ESPAÑOLA DE UROLOGÍA

## Introduction:

In recent years, prostate vaporization has emerged as a new surgical strategy for Benign Prostatic Hyperplasia (BPH) procedures.

## Objectives:

To determine the functional results of prostate vaporization comparing the two energies (Green 120 W vs Thulium 150 W).

To validate the performance of the technique in an outpatient settings.

## Description :

From November 2008 to January 2012, 113 prostate vaporization procedures were selected.

The 60% of cases were performed in an outpatient settings (for the last 58 cases this percentage was even 85%).

All the patients underwent diagnostics (ultrasound, flowmetry, PSA and IPSS) before and 6 months after surgery.

## Patient statistics:

Age: 69 (45-86)

Prostate Volume: 45 cc (10 cc-108 cc)

Antiplatelet therapy: 24.8%

Anticoagulation: 3.5%

Presence of Postvoid Residual Urine Volume: 72% / Acute Urinary Retention (AUR): 16.8%

**GREEN LASER 120 W ( 55 cases ) / THULIUM LASER 150 W ( 58 cases)**

## Results :

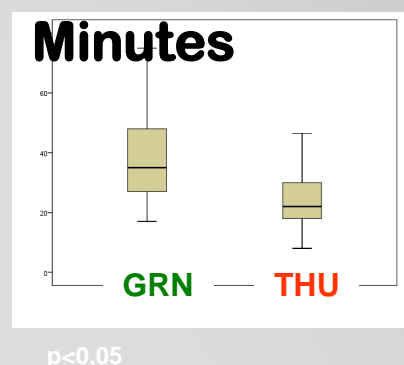
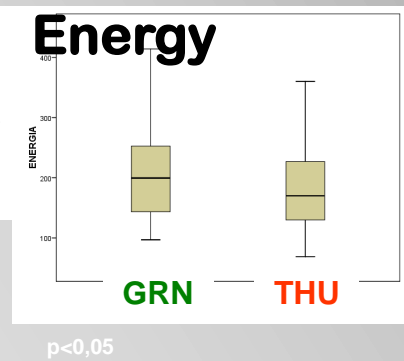
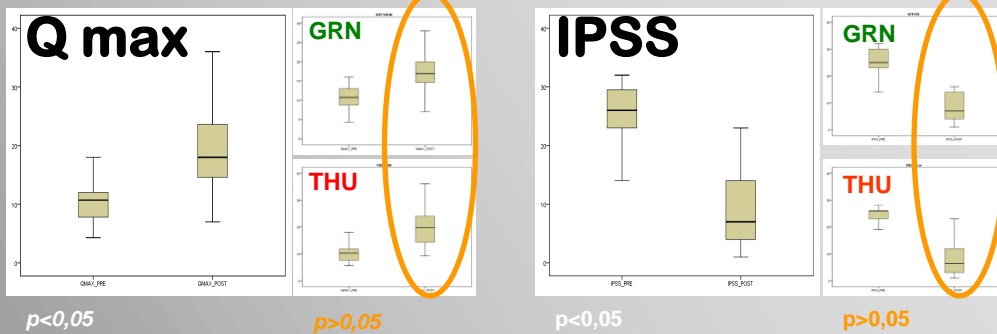
Intraoperative conversion rate of 3%.

Catheterization Time: 1.49 days (1-4 days).

Improvement in maximum flow rate, average flow rate and IPSS at 6 months.

Green vs Thulium laser: Flowmetry and IPSS results are comparable.

Thulium laser: Less surgical time and lower energy levels used.



## Complications:

AUR: 6.3%

Urinary Tract Infections: 4.5%

Hematuria: 2.7%

Erectile Dysfunction: 7%

Prostatic Lodge Sclerosis: 1.8%

Urinary Urgency: 8.1%

## Conclusions:

The prostate vaporization is a safe procedure (also in an outpatient settings).

With satisfactory results related to both functional terms and quality of life.

**GREEN vs THULIUM: Results are comparable, but regarding the performance, THULIUM laser is faster and applies lower energy levels.**