

## Urinary Retention After GreenLight Laser Photoselective Vaporization of the Prostate (GLL.PVP) Surgery for BPH: A 3-6 Month Follow-Up Study

**Authors :** A. B. Azharul Islam

**Abstract :** Introduction and Objective: Our study was designed to evaluate the postoperative urinary retention (UR) and success rate of the Greenlight Laser photo selective vaporization of the prostate (PVP) procedure for BPH patients, both with and without high-risk factors. Methodology: We conducted a retrospective data analysis on 50 patients. We collected data from clinical health records, including notes from the LUTS clinic, TWOC clinic, and A&E presentations with UR. The parameters studied in this analysis included the patient's age, high-risk factors, and whether the patient had a catheter before the surgery. Results: A total of 50 GreenLight Laser PVP surgeries were performed over a 14-month period from May 2023 to July 2024 at West Middlesex University Hospital in London. Most of the patients were between the ages of 60 and 80. Before the surgery, 17 cases (34%) were using long-term catheters, while 33 cases (66%) were not. Additionally, 25 cases (50%) had high-risk factors such as being on anticoagulation therapy, having a history of urinary retention, and having a prostate volume greater than 100 cc before the surgery. Our 3-6 month postoperative follow-up study revealed that 8 cases (16%) developed urinary retention, while 42 cases (84%) did not and post-voidal residual (PVR) volumes were <200 ml. Conclusion: This study revealed that PVP has a significant positive impact on elderly individuals with BPH, 16% of patients experienced urinary retention within 3-6 months after GLL.PVP surgery for BPH, while 84% had no retention issues. Our comprehensive review strongly suggests that GLL PVP is a safe and effective procedure, leading to swift improvement in both subjective and objective voiding parameters.

**Keywords :** GLL.PVP, urinary retention, BPH, catheter, high-risks

**Conference Title :** ICU 2024 : International Conference on Urology

**Conference Location :** Bali, Indonesia

**Conference Dates :** October 24-25, 2024