



## En Bloc Resection of Bladder Tumors (ERBT) using different lasers – Hybrid and Holmium Laser

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### ABSTRACT

**Introduction:** The En-bloc Resection of Bladder Tumors (ERBT) is a method that offers more benefits compared to the traditional Transurethral Resection of Bladder Tumor (TURBT) (1, 2). Recent studies have shown that ERBT offers better pathological analysis and oncological outcomes (3-6). Thulium and holmium are the most frequently used lasers for this procedure, with the hybrid laser being a new addition that combines thulium and diode to improve hemostatic properties (5, 7-9).

**Objective:** This report aims to discuss the use of two types of lasers, hybrid and holmium, for ERBT. Material and Methods: Two case studies were conducted. The first case featured a 68-year-old male with two tumors measuring 1.5cm and 2cm. The hybrid laser was used for the procedure. The second case involved a 70-year-old female with a 5cm tumor on the posterior bladder wall, and holmium laser was used with morcellation of the tumor. The quality of histopathological analysis was evaluated. The perioperative data and the entire procedure of the two cases were documented in a step-by-step video.

**Results:** Both lasers demonstrated excellent results without technical difficulties. There was no bleeding, and both patients were discharged with one day of hospitalization. The detrusor muscle was present without artifacts, and the morcellation did not affect the analysis. The first case showed a pT1G3, and the second case showed a pT2 urothelial carcinoma. The hybrid laser exhibited superior hemostatic capacity compared to the holmium laser.

**Conclusion:** ERBT can use hybrid or holmium lasers without affecting histopathological analysis, even with morcellation.

### CONFLICT OF INTEREST

None declared.

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