

PROSTATE VAPOENUCLEATION WITH GREEN LASER 180 WATTS

Hypothesis / aims of study

Green Laser Photovaporization in BPH patients, is a relatively well established technique. The limitation of this technique is the size of the adenoma itself. Volume of adenoma higher than 80 cc are difficult to treat properly with a single fiber. For this reason we developed a new technique in between vaporization and enucleation to treat large prostate with the Green Laser. In this video we show the vapoenucleation technique.

Study design, materials and methods

A 180 Watts Green Laser was used. Patient was 75 years old, having a long time history of BPH's symptoms, assuming medical therapy for that without benefits. Preoperative PSA was 1.5 ng/ml. Ultrasound prostate volume was 90 cc, adenoma volume was 80 cc. Procedure time was 45 minutes. A regular foley 18 ch catheter was inserted at the end of the procedure and removed after 24 hours. No CVI was required. After removal of the catheter the patient voided regularly and the PVR was 20 cc.

Results

The procedure start with visualization of the ureteral orifices bilaterally, and of the adenoma from the bladder neck to the apex. A large middle lobe and two smaller lateral lobes are present. A stone close to the veru montanum is found and taken out by a stone basket through the laser channel. The procedure start just like an enucleation with the creation of two channels laterally to the mid lobe down to the pseudocapsule from the bladder neck to the veru montanum. A cleavage plane between the adenoma and the peripheral part of the prostate is found just cranially to the veru montanum. At this point we use the two channels and the cleavage plane as anatomic landmarks to know how much tissue we were suppose to take away to be as radical as possible. We therefore started to vaporize part of the mid lobe to create more room and improve the circling of the water. At this point we made the lateral channels even deeper and we remove the mid lobe with a blunt, gentle detachment using the tip of the resectoscope and subsequent vaporization of the detached tissue. The last part of the procedure consist of vaporization of the smaller lateral lobes.

Interpretation of results

This novel technique allowed us to treat large prostate with a single fiber without the use of a morcellator. We think is particular useful in large prostate up to 100 cc of volume, particularly in presence of a large mid lobe.

Concluding message

This video shows a new hybrid Green Laser technique called VapoEnucleation which put together the advantages of two established techniques in one single procedure.

Disclosures

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