Benign Prostatic Hyperplasia (BPH)

DEVICE: CYBER TM, CYBER HO

Many publications provide evidences of Thulium (Tm:YAG) laser as an ideal solution for the treatment of BPH. Thulium can be used to carry out different techniques (enucleation, vaporization and resection), showing significant flexibility in use, safety and reliability. Quanta System Cyber TM device is commonly and effectively used worldwide to treat patients diagnosed with BPH. The following publications deal with the use of Cyber TM laser:


Carmignani L, Motta G, Signorini C, Vizziello D, Ratti D, Picozzi S, Marenghi C, Clementi MC, Nazzani S, Stubinski R; Can thulium vaporization of the prostate be considered as safe and effective as thulium vapoenucleation also for prostates larger than 80 ml? Preliminary results from a single institution. WCE 2017 abstract, Vancouver 12-16 Sept.; MP30-10


Carmignani L, Motta G, Signorini C, Vizziello D, Ratti D, Picozzi S; Comparison of the urinary outcomes of ThuVAP in two groups of
Reference List

patients with a prostate volume <80ml and >80ml (preliminary data). WCE 2017 abstract, Vancouver 12-16 Sept.; MP30-7


Reference List


Carmignani L, Piccozzi S, Bozzini G, Ratti D, Maruccia S, Macchi A, Osmolorskiy B, Kamalov A; Transurethral thulium laser vapo-enucleation versus transvesical open enucleation for prostate adenoma greater than 80 g: a study of 78 patients. 25th World Congress on Videourology June 2015; PP-03.


Gianduzza T; 180 Watt Thulium laser vaporization of the prostate for BPH - safety and efficacy in 100 cases with up to 1 year follow up. USANZ 2014, 67th annual scientific meeting, Brisbane; No. 085.


Carmignani L, Piccozzi S, Macchi A, Casellato S, Bozzini G, Maruccia S, Marenghi C; A prospective evaluation of 200 patients undergoing ThuLEP at our institution. 8° Congresso Nazionale UrOP , Ravello (Italy); May 2013.

Carmignani L, Marenghi C, Stefano P, Casellato S, Bozzini G; Thulium laser enucleation of the prostate in a pulsed modality. 8° congresso nazionale UrOP, Ravello (Italy); May 2013.


Feneley MR. Institute of Urology and Nephrology, University College Hospital, London, UK; Cyber TM 150W Thulium:Yag: A unique laser system for treatment of BPH. 2012 (white paper available at <http://

Carmignani L, Lunelli L, Bozzini G, Picozzi S, Casellato S; Comparison between monopolar trans-urethral resection of prostate and thulium laser enucleation of the prostate: a single institution experience. Fukuoka 2012 - 32nm Congress of the SIU; MP-06.08.


Many publications report the use of lasers, including Thulium (Tm:YAG) and Holmium (Ho:YAG), in the treatment of urinary tumor (including bladder and UUT carcinoma), as alternative to the standard techniques. The use of Quanta System Cyber TM and Litho devices is reported and described in the following works:


Bialek W et al; Thulium laser TURBT - initial experience. 43rd National Congress of the Polish Urological Association, September 5-7, 2013 Jachranka, Poland


Many publications report the use of lasers in thoracic surgery, including Thulium laser. The use of Quanta System Cyber TM device is reported and described in the following publications:


The use of laser in the GI field has been recently explored, showing interesting features with respect to alternative and more established methods. The use of Quanta System Cyber TM, Opera EVO and Litho devices is reported and described in the following publications:

**Gastroenterology**

**DEVICE: OPERA EVO, CYBER TM, LITHO**


The use of Holmium (Ho:YAG) laser in the treatment of stones is now widely accepted, with such technology representing a safe and reliable choice when used both percutaneously and endoscopically. Quanta System Ho:YAG laser devices are commonly and effectively used worldwide to perform lithotripsy in patients. The following publications with the use of Litho, Litho DK30 and Cyber Ho laser devices:


Halinski A, Halinski A; Flexible Ureterorenoscopy as a New Possibility of Treating Nephrolithiasis in Children – Preliminary Reports. International Journal of Medical and Health Sciences Vol:2, No:9, 2015


Other Studies

**DEVICE: DIODE SERIES**

Diode lasers represent versatile and multidisciplinary tools aimed at ablation, incision and coagulation of different soft tissues. Their use is widely reported in literature and commonly accepted for many treatments. Quanta System Diode lasers (including 532, 980 and 1470 nm wavelengths) have been largely distributed worldwide for different medical specialties.

The following publications deal with the use of Quanta System Diode Series devices:


- Nejm CS Jr, Timi JR, de Araújo WB Jr, Caron FC; Endovenous laser ablation of the great saphenous vein. Varying energy may not affect outcome. Phlebology 2017 Feb;32(1):1318

- Nermin MY, Ali MS Samah SM; Impact of welding the dental enamel walls of the fissure system using semiconductor laser: In-Vitro study. Dentistry 2017, 7:8


- WJB Araujo, JRR Timi, Júnior CSN, Caron FC; Evaluation of great saphenous vein occlusion rate and clinical outcome in patients undergoing laser thermal ablation with a 1470-nm bare fiber laser with low linear endovenous energy density. J. Vasc. Bras. 14 (4); Porto Alegre Oct./Dec. 2015.


Kassab AN, Rifaat M, Madian Y; Comparative study of management of inferior turbinate hypertrophy using turbinoplasty assisted by microdebrider or 980 nm diode laser. J Laryngol Otol. 2012 Dec;126(12):1231-7.


Elhayes KA; Low intensity laser versus synthetic bone graft to increase bone density after enucleation of large cystic lesions of jaws. Journal of American Science, 2011;7(6).

Radwan DA, Mohammed NH, Zaky AA; Effectiveness of low power laser therapy and betamethasone in minimizing postoperative edema and trismus after third molar surgery: a clinical trial. Journal of American Science, 2010;6(12).