

Bölüm 7

BPH'DA LAZER ÇEŞİTLERİ VE KULLANIM ALANLARI

YAZAR: Güçlü GÜRLEN

- 1.** Giriş
- 2.** Neodymium: yttrium-aluminium-garnet (Nd:YAG)
- 3.** Nd: YAG Lazerin BPH' da Kullanım Yerleri:
 - A.** Transurethral ultrasound-guided lazer-induced prostatectomy (TULIP (ultrason eşliğinde transüretral lazer prostatektomi))
 - B.** Visual laser ablation of the prostate (VLAP) (görsel prostat lazer ablasyonu)
 - C.** Contact Lazer Ablation of the Prostate (CLAP) (kontak lazer prostat ablasyonu)
 - D.** Interstitial Laser Coagulation (ILC) (interstisyal lazer koagülasyon)
- 4.** Potassium-titanyl-phosphate:yttrium-aluminium-garnet (KTP: YAG) lazer
- 5.** Lityum Triborat (LBO) lazer
- 6.** Holmium: yttrium-aluminium-garnet (Ho: YAG) lazer
 - A.** "Holmium laser ablation of the prostate" HoLAP (holmium lazer ile prostat ablasyonu)
 - B.** Holmium laser resection of prostate HoLRP (holmium lazer ile prostat rezeksiyonu)
- 7.** Diode lazer
- 8.** Thulyum (Tm) ittrium aliminium-garnet lazer

Kaynaklar

1. Luis Miguel Clemente Ramos. high power 980 nm diode laser preliminary results in the treatment of benign prostatic hyperplasia. *Arch. Esp. Urol.* 2009;62:125-30.
2. Abdel-Khalek M, El-Hammady S, Ibrahem el H: A 4-year follow-up of a randomized prospective study comparing transurethral electrovaporization of the prostate with neodymium: YAG laser therapy for treating benign prostatic hyperplasia. *BJU international* 2003, 91(9):801-805.
3. Keoghane SR, Lawrence KC, Gray AM, Doll HA, Hancock AM, Turner K, Sullivan ME, Dyar O, Cranston D: A doubleblind randomized controlled trial and economic evaluation of transurethral resection vs contact laser vaporization for benign prostatic enlargement: a 3-year follow-up. *BJU international* 2000, 85(1):74-78
4. Reich O, Bachmann A, Siebels M, Hofstetter A, Stief CG, Sulser T: High power (80 W) potassium-titanyl-phosphate laser vaporization of the prostate in 66 high risk patients. *The Journal of urology* 2005, 173(1):158-160
5. Pawan V, Anup K, Niraj K, Biswajit N, Punita R, Rajendra A, Nayan M: Safety and efficacy of photoselective vaporization of prostate in patients receiving anticoagulants Pawan V., A. *Minerva urologica e nefrologica = The Italian journal of urology and nephrology* 2013, 65(3):189-195.
6. Wosnitzer MS, Rutman MP. KTP/LBO laser vaporization of the prostate. *Urol Clin North Am.* 2009;36:471–483.
7. Heinrich E, Wendt-Nordahl G, Honeck P, et al. 120 W lithium triborate laser for photoselective vaporization of the prostate: comparison with 80 W potassium-titanyl-phosphate laser in an ex-vivo model. *J Endourol.* 2010;24:75–79.
8. Cornford PA, Biyani CS and Powell CS: Transurethral incision of the prostate using the Holmium:YAG laser: A catheter less procedure. *J Urol* 1998; 159:1229-1231.
9. Kabalin JN. Holmium:YAG laser prostatectomy: Canine feasibility study. *Laser Surg Med* 1996; 18:221-224.
10. Gravas S, Bachmann A, Reich O, Roehrborn CG, Gilling PJ, De La Rosette J. Critical review of lasers in benign prostatic hyperplasia (BPH) *BJU Int.* 2011;107:1030–1043.
11. Sener TE, Butticè S, Macchione L, Netsch C, Tanidir Y, Dragos L, vd. Thulium laser vapo resection of the prostate: can we operate without interrupting oral antiplatelet/anticoagulant therapy? *Investig Clin Urol* 2017;58(3):192-9
12. McCullough DL, Roth RA, Babayan RK ve ark.: Transurethral ultrasound-guided laser-induced prostatectomy: National Human Cooperative Study results. *J Urol* 1993; 150:1607-1611.
13. 11. Kabalin JN: Laser prostatectomy is a safer, better operation than electrovaporization of the prostate. *Urology* 1997; 49:160- 65.
14. Sengor F, Gurdal M, Tekin A ve ark. Neodymium: YAG Visual Laser Ablation of the Prostate: 7 Years Of Experience With 230 Patients. *J Urol.* 2002; 167(1): 184-187.
15. Keoghane SR, Sullivan ME, Doll HA ve ark. Five year data from the Oxford Laser Prostatectomy Trial. *BJU Int* 2000; 86:227-228.
16. Bryan NP, Klingler HC, Cutinha PE ve ark. Analysis of a randomised trial between

- en visual laser ablation and contact laser ablation of prostate. Eur Urol 1998; 33:4.
17. Laguna MP, Alivizatos G and de-la Rosetta JJMCH. Interstitial laser coagulation in the treatment of benign prostatic hyperplasia: Is it to be recommended? J Endourol 2003; 17:595- 600.