

Bölüm 12

Lazer Teknolojileri BPH Cerrahisinde Altın Standart mıdır ?

YAZAR: Hakan ANIL, Nevzat Can ŞENER

1. Giriş
2. TUR-P' ye karşı HoLEP
3. Açık Prostatektomi'ye Karşı HoLEP
4. Diğer Lazer Türlerinin Karşılaştırılması ve Lazerlerin Geleceği
5. Sonuç
6. Kaynaklar

Kaynaklar

1. Reich O, Seitz M, Gratzke C, Schlenker B, Walther S, Stief C. [Benign prostatic hyperplasia (BPH) : Surgical therapy options]. *Urologe A*. 2010;49(1):113-26.
2. Lukacs B, Cornu JN, Aout M, et al. Management of lower urinary tract symptoms related to benign prostatic hyperplasia in real-life practice in France: a comprehensive population study. *Eur Urol*.2013;64:493–501.
3. van Rij S, Gilling PJ. In 2013, Holmium Laser Enucleation of the Prostate (HoLEP) May Be the New 'Gold Standard' . *Curr Urol Rep*. 2012 Dec;13(6):427-32.
4. Gilling PJ, Cass CB, Malcolm AR, Fraundorfer MR. Combination holmium and Nd:YAG laser ablation of the prostate: initial clinical experience. *J Endourol*. 1995;9(2):151–3.
5. El-Hakim A. TURP in the new century: an analytical reappraisal in light of lasers. *Can Urol Assoc J*. 2010;4(5):347-9.
6. Gilling PJ, Cass CB, Cresswell MD, Fraundorfer MR. Holmium laser resection of the prostate: preliminary results of a new method for the treatment of benign prostatic hyperplasia. *Urology*. 1996;47(1):48-51.
7. Elzayat EA, Habib El, Elhilali MM. Holmium laser enucleation of the prostate: a size-independent new "gold standard". *Urology*. 2005;66(5 Suppl):108-13.
8. Montorsi F, Naspro R, Salonia A, Suardi N, Briganti A, Zanoni M, et al. Holmium laser enucleation versus transurethral resection of the prostate: results from a 2-center, prospective, randomized trial in patients with obstructive benign prostatic hyperplasia. *J Urol*. 2004;172(5 Pt 1):1926-9.
9. Gilling PJ, Wilson LC, King CJ, Westenberg AM, Frampton CM, Fraundorfer MR. Long-term results of a randomized trial comparing holmium laser enucleation of the prostate and transurethral resection of the prostate: results at 7 years. *BJU Int*. 2012;109(3):408-11.
10. Yin L, Teng J, Huang CJ, Zhang X, Xu D. Holmium laser enucleation of the prostate versus transurethral resection of the prostate: a systematic review and meta-analysis of randomized controlled trials. *J Endourol*. 2013;27(5):604-11.
11. Kuntz RM, Ahyai S, Lehrich K, Fayad A. Transurethral holmium laser enucleation of the prostate versus transurethral electrocautery resection of the prostate: a randomized prospective trial in 200 patients. *J Urol*. 2004;172:1012–6.
12. Kuebker JM, Miller NL. Holmium Laser Enucleation of the Prostate: Patient Selection and Outcomes. *Curr Urol Rep*. 2017 Oct 19;18(12):96.
13. Elzayat, E.A., et al. Holmium laser enucleation of the prostate (HoLEP): long-term results, reoperation rate, and possible impact of the learning curve. *Eur Urol*, 2007. 52: 1465.
14. Du, C., et al. Holmium laser enucleation of the prostate: the safety, efficacy, and learning experience in China. *J Endourol*, 2008. 22: 1031.
15. Robert, G., et al. Multicentre prospective evaluation of the learning curve of holmium laser enucleation of the prostate (HoLEP). *BJU Int*, 2016. 117: 495.
16. Aho, T., et al. Description of a modular mentorship programme for holmium laser enucleation of the prostate. *World J Urol*, 2015. 33: 497.
17. Shah HN, Mahajan AP, Sodha HS, Hegde S, Mohile PD, Bansal MB. Prospective evaluation of the learning curve for holmium laser enucleation of the prostate. *J Urol* 2007;177:1468-74.
18. Seki N, Mochida O, Kinukawa N, Sagiyama K, Naito S. Holmium laser enucle-

- ation for prostatic adenoma: analysis of learning curve over the course of 70 consecutive cases. *J Urol* 2003;170:1847-50.
19. S. Gravas JNC, M. Gacci, C. Gratzke, T.R.W. Herrmann, C. Mamoulakis, M. Rieken. Management of Non-Neurogenic Male Lower Urinary Tract Symptoms (LUTS), incl. Benign Prostatic Obstruction (BPO). EAU guidelines. 2020.
 20. Cornu JN, Ahyai S, Bachmann A, de la Rosette J, Gillig P, Gratzke C, et al. A Systematic Review and Meta-analysis of Functional Outcomes and Complications Following Transurethral Procedures for Lower Urinary Tract Symptoms Resulting from Benign Prostatic Obstruction: An Update. *Eur Urol*. 2015;67(6):1066-96.
 21. Kuntz RM, Lehrich K, Ahyai SA. Holmium laser enucleation of the prostate versus open prostatectomy for prostates greater than 100 grams: 5-year follow-up results of a randomised clinical trial. *Eur Urol*. 2008;53(1):160-6.
 22. Salonia A, Suardi N, Naspro R, et al. Holmium Laser Enucleation Versus Open Prostatectomy for Benign Prostatic Hyperplasia: An Inpatient Cost Analysis. *Urology*. 2006 Aug;68(2):302-6.
 23. Thangasamy, I.A., et al. Photoselective vaporisation of the prostate using 80-W and 120-W laser versus transurethral resection of the prostate for benign prostatic hyperplasia: a systematic review with meta-analysis from 2002 to 2012. *Eur Urol*, 2012. 62: 315.
 24. Zhou, Y., et al. Greenlight high-performance system (HPS) 120-W laser vaporization versus transurethral resection of the prostate for the treatment of benign prostatic hyperplasia: a metaanalysis of the published results of randomized controlled trials. *Lasers Med Sci*, 2016. 31: 485.
 25. Elmansy, H., et al. Holmium laser enucleation versus photoselective vaporization for prostatic adenoma greater than 60 ml: preliminary results of a prospective, randomized clinical trial. *J Urol*, 2012. 188: 216.
 26. Zhao, C., et al. Thulium Laser Resection Versus Plasmakinetic Resection of Prostates in the Treatment of Benign Prostate Hyperplasia: A Meta-Analysis. *Journal of laparoendoscopic & advanced surgical techniques. Part A*, 2016. 26: 789.
 27. Zhang, F., et al. Thulium laser versus holmium laser transurethral enucleation of the prostate: 18-month follow-up data of a single center. *Urology*, 2012. 79: 869.
 28. Xiao KW. , et al. Enucleation of the prostate for benign prostatic hyperplasia thulium laser versus holmium laser: a systematic review and meta-analysis. *Lasers Med Sci*. 2019 Jun;34(4):815-826. Resim 1: TURis sistemi ile bipolar TURP