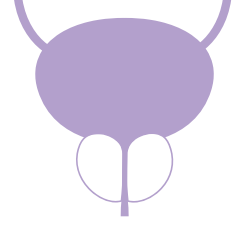


Bölüm 5a

Ürotelyal Kanserlerde Lazer Ablasyon



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GİRİŞ

Lazer (Light Amplification by Stimulated Emission of Radiation) tıp alanında insanlığın hizmetine sunulduğu günden bu yana birçok tedavi uygulamasında asıl veya alternatif yöntem olarak kullanılmaktadır. Başlıca üriner sistem taşları, benign prostat hiperplazisi, ürotelyal kanserler ve üretral darlıklar olmak üzere birçok ürolojik hastalığın tedavisinde yaygın kullanım alanı bulmaktadır (1).

Ürolojik malignitelerde ilk lazer kullanımı Staehler ve ark. tarafından bildirilmiştir (2). Düşük hasta sayısı ve kısa takip süresine rağmen Nd:YAG (Neodymium-doped:Yttrium-Aluminum-Garnet) lazer ile mesane tümörlerinin başarılı ablasyonunu bildiren bu çalışma, ürotelyal kanserlerde lazer kullanımına öncülük etmiştir. Bu çalışmayı takiben farklı lazerler türlerinin ürotelyal kanserlerin tedavisinde başarılı sonuçlarını bildiren çok sayıda çalışma yayınlanmıştır. Ürotelyal kanserlerin ablasyonunda en sık kullanılan lazer türleri; Ho:YAG (Holmium: Yttrium-Aluminum-Garnet), Tm:YAG (Thulium: Yttrium-Aluminum-Garnet), Nd:YAG ve KTP (Potassium-titanyl-phosphate) lazerlerdir. Her birinin dalga boyu, penetrasyon derinliği, koagülasyon etkisi vb. özelliklerinin birbirinden farklı oluşu tümör tedavisi açısından avantajlı ya da dezavantajlı konuma geçmelerine neden olmaktadır.

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