

Wybrane zastosowania lasera diodowego w chirurgii laryngologicznej

Selected applications of diode laser in laryngological surgery

Andrzej Sieńkiewicz, Marek Rogowski, Ewa Olszewska

Diode laser due to emitted wavelength and achieved tissue effect appear to be universal tool for broad range of applications in laryngological surgery. The aim of the study was to present variety of applications of this type of laser in the treatment of selected pathologies of the nose, pharynx and oral cavity. Material and method. 45 patients with various pathologies of the nose, pharynx and oral cavity were subjected to diode laser treatment under control of endoscopes and video routing system. In the studied group diode laser was used for hyperplastic turbinates treatment, correction of concha bullosa and septum deformations, ablation of nasal polyps and synechiae inside nasal cavity including cicatrical stenoses in the orifice of common lacrimal canaliculus, coagulation of vascular hemorrhagic diathesis, ablation of bleeding granulomas and polyps and treatment of vascular malformations. Results. Endoscopic diode laser surgery enabled for precise and save removal of the pathology accompanied only by minimal intraoperative bleeding. Healing and reepithelization process were normal and even in large postoperative defects do not exceeded 12 weeks. Postoperative complications in the form of cicatrix and synechiae were found in 3 patients. Conclusions. Various pathologies may be treated effectively with diode laser if appropriate laser beam parameters and surgical technique is applied.