

## Candidiasis

Ter Arkh. 1996;68(2):23-4.

### **[The efficacy of high-intensity laser irradiation in the combined treatment of patients with esophageal candidiasis]**

[Article in Russian]

[Preobrazhenskii VN](#), [Kasatkin NN](#).

High-intensity impulse laser radiation proved effective in 23 patients with esophageal candidiasis. The highest effect was achieved in its use with nistatin. In low laser efficacy radiation should be combined with transendoscopic administration of granulocytes concentrate. This produced clinico-endoscopic remission in 98.3% of the cases.

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### **Effect of Low-Level Laser Therapy on Candida albicans Growth in Patients with Denture Stomatitis.**

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**Objective:** The purpose of our report is to present the effect of low-level laser therapy on *Candida albicans* growth and palatal inflammation in two patients with denture stomatitis. **Background Data:** The most common oral mucosal disorder in denture wearers is denture stomatitis, a condition that is usually associated with the presence of the yeast *Candida albicans*. Different treatment methods have been suggested to treat this symptom, none of which is proven to be absolutely effective. **Methods:** Two denture-wearing patients, both with palatal inflammation diagnosed as Newton type II denture stomatitis were treated with low-power semiconductor diode laser (BTL-2000, Prague, Czech Republic) at different wavelengths (685 and 830 nm) for 5 d consecutively. In both patients, palatal mucosa and acrylic denture base were irradiated in noncontact mode (probe distance of 0.5 cm from irradiated area) with different exposure times-5 min (830 nm, 3.0 J/cm<sup>2</sup>, 60 mW) and 10 min (685 nm, 3.0 J/cm<sup>2</sup>, 30 mW). The effect of laser light on fungal

growth in vivo was evaluated after the final treatment using the swab method and semiquantitative estimation of *Candida albicans* colonies growth on agar plates. The severity of inflammation was evaluated using clinical criteria. Results: After lowlevel laser treatment, the reduction of yeast colonies on the agar plates was observed and palatal inflammation was diminished. Conclusion: LLLT is effective in the treatment of denture stomatitis. Further placebo controlled studies are in progress.