

عنوان مقاله:

In vitro evaluation of antifungal effects of *Lactobacillus acidophilus* and *Lactobacillus plantarum* compared to fluconazole against *Candida glabrata* isolated from oral cavity of HIV/ AIDS patients

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

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خلاصه مقاله:

Introduction and Objectives: Oropharyngeal Candidiasis (OPC) Known as an opportunistic Fungal Infections in immunosuppression human such as HIV/AIDS patients. *C. albicans* together other *Candida* species such as *C. tropicalis*, *C. glabrata*, *C. krusei*, *C. kefyr*, *C. parapsilosis*, and *C. dubliniensis* have been isolated from infected areas in the mouth. The aim of this study was in vitro evaluation of antifungal effects of *L. acidophilus* and *L. plantarum* compared to fluconazole (FLC) against *C. glabrata* isolated from oral cavity of HIV/ AIDS patients. **Materials and Methods:** Antifungal properties of both cells and CSFs of *L. acidophilus* and *L. plantarum* compared to fluconazole against *C. glabrata* investigated by Co-aggregation, agar overlay and interference and broth microdilution. **Results:** Our finding showed that both cells and CSFs of *L. acidophilus* and *L. plantarum* had antifungal effects against *C. glabrata*. The most intense inhibition was observed at low concentrations of *L. acidophilus* CFS compared to *L. plantarum* CFS and FLC ($p < 0.0001$). In addition, significant difference was detected between antifungal effects of the CFS of two LABs ($p < 0.003$). **Conclusion:** The antifungal effects of *L. acidophilus* and *L. plantarum* was higher than .FLC on *C. glabrata*. Inhibitory effect of *L. acidophilus* CFS was more than *L. plantarum* CFS and FLC

کلمات کلیدی:

Oropharyngeal Candidiasis, Antifungal effects, probiotic, lactobacilli, *L. acidophilus*, *L. plantarum*, *C. glabrata*, AIDS/ .HIV patients

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