

عنوان مقاله:

In vitro antifungal activity of aqueous-ethanolic extract of *Allium jesdianum* against fluconazole-susceptible and resistant human vaginal *Candida glabrata* isolates

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خلاصه مقاله:

Introduction: About ۵۰% of women are diagnosed with an episode of vulvovaginal candidiasis (VVC) during first ۲۵ years of their lives. *Candida glabrata* is considered the second most prevalent non-*C. albicans* species associated with VVC. In this study, we examined the antifungal effect of a medicinal plant, *Allium jesdianum*, as a natural therapeutic agent against fluconazole-susceptible and -resistant human vaginal *C. glabrata* isolates, collected from two groups of volunteers; healthy women and women with VVC. **Methods:** An aqueous-ethanolic extract of *A. jesdianum* was prepared by maceration method. Vaginal specimens were collected from ۲۸ women diagnosed with VVC and eight healthy subjects. The specimens were cultured using fungal-specific media in optimum conditions. The antifungal susceptibility of clinical isolates of *C. glabrata* to the plant extract and fluconazole was evaluated according to the standard protocols. **Results:** *Candida glabrata* was found to be the major cause of vaginal infection among ۱۵.۲% of women with VVC. We could identify the *Candida* spp. yeasts that colonized the vagina of ۳۵% of healthy women while ۱۹% of the isolated yeasts strains were detected as *C. glabrata*. Moreover, ۷.۱% of isolates obtained from VVC-patients were fluconazole resistant. The results showed the antifungal effect of *A. jesdianum* against all fluconazole resistant and susceptible *C. glabrata* vaginal isolates. The MIC_{۹۰} of aqueous-ethanol (A-EtOH) extract of *A. jesdianum* against *C. glabrata* isolates from both VVC-patients and healthy women was ۳ mg/mL. **Conclusion:** Our results showed the promising antifungal efficacy of aqueous-ethanolic extract of *A. jesdianum*. *A. jesdianum* extract might be used as an alternative choice to treat the VVC infections caused by fluconazole resistant *Candida* spp.

کلمات کلیدی:

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