

عنوان مقاله:

Chemical composition of *Prangos ferulacea* (L.) Lindl., and *Prangos uloptera* DC. essential oils and their antifungal activities

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خلاصه مقاله:

Introduction: *Candida albicans* is an important opportunistic pathogen that is responsible for most fungal infections in humans. Secondary metabolites are known to be antimicrobial and antifungal agents. This study aimed to investigate the chemical composition of *Prangos ferulacea* and *P. uloptera* essential oils and evaluate the sensitivity of four genera of *Candida*. **Methods:** After collecting plant samples, their essential oils were extracted by the distillation method, and their components were analyzed using Gas chromatography–mass spectrometry to identify constituents. In total, ۴۸ species of *Candida* isolated from clinical specimens were examined in this study. The antifungal activities of essential oils of *P. ferulacea* and *P. uloptera* were evaluated according to CLSI M۲۷-A۳ compared to fluconazole. **Results:** Out of the two tested plants, *P. ferulacea* had the lowest minimum inhibitory concentration (MIC) against *Candida* species. However, MIC of this plant against *C. albicans* isolates was higher than ۰.۱۲۱ µL/mL non-albicans species. Both plants were able to inhibit non- albicans species with MIC_{۹۰} values of ۰.۰۰۹۷ and ۰.۰۳۹ µL/mL. However, their MIC_{۹۰} values were less than fluconazole against *Candida* isolates. **Conclusion:** The results of this study suggest that *P. ferulacea* and *P. uloptera* essential oils might be used as new antifungal agents.

کلمات کلیدی:

Fluconazole, Herbal medicine, Candidiasis, Chemical analysis, Antifungal agents

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