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Antifungal effect of lavender essential oil (*Lavandula angustifolia*) and clotrimazole on *Candida albicans*: an in vitro study

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Introduction: The treatment of candidiasis infections is an important problem in the health care system. This study aimed to investigate the *in vitro* effect of lavender essential oil and clotrimazole on isolated *C. albicans* from vaginal candidiasis.

Materials & Methods: In this clinical trial, *C. albicans* isolated from the vaginal discharge samples was obtained.

Results: The pairwise comparison showed that lavender and clotrimazole had a significant difference; this difference in the lavender group was lower than clotrimazole. But, after 48 hours, there was no difference seen between groups. There was a significant difference between clotrimazole and DMSO groups. Comparing the changes between groups based on the same dilution, at 24 h and 48 h in clotrimazole group, showed a significant difference two times in the fungal cell count that its average during 48 h was less than 24 h. A significant difference was observed between the two periods in lavender group, only at the dilutions of 1/20 and 1/80. The average fungal cell count after 48 h was also lower in lavender group.

Conclusions: Given that the lavender has antifungal activity, this can be used as an antifungal agent. However, more clinical studies are necessary to validate its use in candida infection.

Biography

Hajar Pasha is associated with Babol University of Medical Sciences, Iran . Hajar Pasha has published several papers in reputed journals. Hajar Pasha is committed to highest standards of excellence and it proves through the authorship of many books. Hajar Pasha research interests include Microbiology.

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