

6<sup>th</sup> Annual Conference on

## MICROBIOLOGY

&amp;

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**Synergistic activity between *Echinophora platyloba* DC ethanolic extract and azole drugs against clinical isolates of *Candida albicans* from women suffering chronic recurrent vaginitis.****Majid Avijgan**

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**Objective:** *Candida albicans* is one of the main causes of vaginitis, especially in women with recurrent episodes. The appearance of drug resistant *C. albicans* and adverse effects of chemical agents have raised interest in *Echinophora platyloba* as one of four native species in Traditional Persian-Iranian medicine.

**Materials & Methods:** This study evaluates the antifungal activity of ethanolic extract from dried aerial parts of *E. platyloba* against 27 clinical isolates of *C. albicans* from women suffering chronic recurrent vaginitis by micro-broth dilution assay. The synergistic effect of azole drugs and *E. platyloba* ethanolic extract were also determined by disc diffusion method after determining the MIC<sub>90</sub>.

**Results:** The results of this study showed a potent synergistic effect of *E. platyloba* ethanolic extract and itraconazole ( $P < 0.01$ ) and fluconazole ( $P < 0.001$ ) but an antagonistic effect between *E. platyloba* ethanolic extract and clotrimazole and miconazole against clinical isolates of *C. albicans*.

**Conclusions:** These results must be confirmed by clinical application and by further clinical studies.

**Biography**

Majid Avijgan has completed his Doctorate (MD) from Esfahan University of Medical Sciences and Residency of Infectious Diseases for 4 years when he has Graduated as Specialist in National Board of Iran as second degree among 19 participants. He is one of Young Professor of Iran who has been promoted to Full Professor of Infectious Diseases. He has published more than 104 papers in reputed journals and has been serving as an Editorial Board Member of some international journals- *American Journal of Acupuncture* and *Integrative Medicine International*.

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