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Effects of *moringa oleifera* and *punica granatum* seeds essential oils collected from Al-Baha region on candidal vaginitis mice model**Khulud M. Alshehri**

AL-Baha University, Saudi Arabia

Moringa oleifera and *Punica granatum* are two of important medicine plants found in many parts of Al-Baha region. *Moringa oleifera* and *Punica granatum* seeds essential oils proved its antimicrobial activity against wide spectrum of pathogens. *Candida albicans* is caused common mucosal infectious disease in women in the form of candida vaginitis. Frequent used of antifungal treatment against Candidal infection was showed high resistant. That lead to the necessity of alternative therapy. The aim of the present study was to investigated the effect of *Moringa oleifera* and *Punica granatum* seeds essential oils on candidal vaginitis using mice model. The essential oils were extracted with n-hexane and soxhlet extractor and tested its activities. Agar diffusion method, MIC and MFC were collected in vitro and histological diagnosis using PAS stain was examine in vivo. The *Moringa oleifera* E.O showed high ability to inhabited candidal growth compered to the *Punica granatum* E.O with 18.3 ± 1.5 mm inhibition zone and MIC&MFC were recorded 0.0312 mg/ml and 0.0625 mg/ml respectively. The *Punica granatum* E.O gave 12.7 ± 1.5 mm inhibition zone and MIC&MFC were recorded 0.0625 mg/ml and 0.125 mg/ml respectively. The lost of squamous epithelium cells whith no *Candida albicans* yeast or hyphae appeared in histological examination of *Moringa oleifera* treated group. Clear ability to recover vaginal lumen from *Candida albicans* infection showed in histological sections of *Punica granatum* E.O compered to infected non treated group. based on this data *Moringa oleifera* and *Punica granatum* seeds E.Os have effective therapy to candidal vaginitis.

Biography

Khulud M. Alshehri has completed her PhD at the age of 33 years from King Abdulaziz University, Jeddah, Saudi Arabia. She is a member of Biology Society of Saudi Arabia.

dr.k2015@hotmail.com

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