

عنوان مقاله:

Investigating the effect of Myrtus Communis extract on Trichomonas Vaginalis parasite

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Khadije rezaie keikhaie - *associate professor of obstetric & gynecology fellowship in perinatology, zabol university of medical sciences, Zabol, Iran*

Fateme Parooie - *student research committee, zabol university of medical sciences, Zabol, Iran*

خلاصه مقاله:

Introduction and Objectives: Given the significant effects of the extract of Myrtus Communis and considering its being a natural flora of Iran, and considering chronic and recurrent cases of trichomoniasis and the necessity of trying to find more efficient medication with less complications, the present study was conducted to determine the effect of Myrtus Communis extract on Trichomonas vaginalis. **Materials and Methods:** The present study is a descriptive, cross-sectional study, the subjects of which were selected through simple sampling method, was conducted on patients with genital infection including discharge, itching, burning and smelling bad, referring to gynecologist from September 2018 to April 2019; after being examined and documented by physicians, the subjects were referred to laboratory for evaluation to see if they would be diagnosed with vaginal infection or not. A drop of the sample was placed on a slide and examined by light microscope in order to provide direct swap testing. The samples were cultured in Dorset and evaluated after 24 to 48 hours to check the growth of single-celled organisms. The effect of the extracts on Trichomonas vaginalis trophozoite was evaluated based on the minimum inhibitory concentration. **Results:** The efficacy of the studied extract was 99.44% at a dose of 300 μ g 24 hours after intervention; this rate was 100% 48 and 72 hours after intervention. For 600 μ g, this rate was 99.67% in 24 hours and 100% in 48 and 72 hours after intervention. **Conclusion:** The extract of Myrtus Communis in two concentrations of 300 and 600 micrograms showed a high potential for killing Trichomonas vaginalis parasite, indicating the necessity of further studies especially in vivo, in order to introduce this plant as an efficient medical intervention with much fewer side effects in comparison with other chemical medications used to treat this common form of infection.

کلمات کلیدی:

Myrtus Communis, Trichomonas Vaginalis, trichomoniasis

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