EFFECT OF ESSENTIAL OIL AND METHANOLIC EXTRACT OF MYRTUS COMMUNIS ON TRICHOMONAS VAGINALIS
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Objective: Considering the high prevalence of Trichomonas vaginalis (TV) in women and the known side effects of metronidazol and giving importance to herbal drug therapy in order to reduce drug side effects in the recent decades; This study with the effect of myrtus in TV infection was done invitro condition. Material & Methods: This study has been carried out as double blind in test and control groups. Methanolic extraction was performed by percolation and essential oil prepared by hydrodistillation. The parasite was isolated from vagina and determined directly. Samples were collected from vaginal discharge identification was done through direct smear preparation parasite was added to the 5 test tubes containing dross medium, metronidazole. Dimethyl sulfoxide (DMSO) myrtus extraction with concentration of (0.1, 0.01 ml and essential oil with concentrations of (0.1,0.01,0.001 – 0.004, 0.0002, 0.0001) in order to determine the effect of these concentration within 72 hour. Results: Finding of this study showed that, Trichomonas could be alived in Drosse medium for 72 hours. In presence of metronidazole for one hour and in Drosse medium for 6 hours. Also the results revealed that, methanolic extract at concentrations of 0.1 and 0.01 and essential oil at concentrations of 0.1, 0.01, 0.001 and 0.0004 are effective at the beginning of the inoculation and at concentrations of 0.0002 and 0.0001 after 2 and 9 hours respectively. Conclusion: Considering the significant effect of essential oil and methanolic extract of myrtus on trichomonas in in-vitro condition it is recommended that, the therapeutic effects the substance from this plant be studied in invivo condition and in case of having positive effect to be used as a drug. Key words: Myrtus communis, Trichomnas vaginalis, Essential oil