The effects of different extracts of *Eucalyptus camaldulensis* on *Trichomonas vaginalis* parasite in culture medium.

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**Background and Aims:** Trichomonas vaginalis considered one of the main causes of vulvovaginitis in women. Metronidazole with vast side effects is now drug of choice for treatment of this infection. In order to find an alternative drug the effect of *Eucalyptus camaldulensis* on this parasite was shown in previous studies. In this investigation the effect of different extracts of this plant on *Trichomonas vaginalis* in culture medium has been investigated.

**Methods:** Five different extracts including total extract, diethyl ether, chloroform, ethyl acetate and water fractions were prepared. The extracts were dried using vacuum rotary evaporator and then they were used for in-vitro anti-trichomonas experiments.

**Results:** Crude extract of *Eucalyptus camaldulensis* showed 80% growth inhibition (G.I.) in concentration of 12.5mg/ml during 24 hours. Diethyl ether extract in concentration of 25mg/ml showed 100% G.I. during 24 hours. With ethyl acetate extract of 100% growth inhibition was detected with the minimum concentration of 12.5mg/ml, at the first 24 hours. Finally water acetate extract in concentration of 50mg/ml showed 80% and 100% G.I. after 48 and 72 hours respectively.

**Conclusions:** ethyl acetate fraction is the extract which showed the highest percentage of growth inhibition (100%) with the least concentration (12.5mg/ml) after 24 and 48 hours.

**Keywords:** *Eucalyptus camaldulensis; Trichomonas vaginalis; Ethyl acetate extract*