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Evaluating the effect of Stachys lavandulifolia extract on the growth of Giardia lambia, in vitro

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**Statement of the Problem:** *Giardia lamblia* is a parasite that causes major infection in humans. There are few therapeutics agents with unpleasant adverse effects available for treating giardiasis. *Stachys lavandulifolia* with polyphenolic structure considered as an antimicrobial agent. In this study, we evaluated the *in vitro* inhibitory activity of *Stachys lavandulifolia* leaves on cysts of *G. lamblia*.

**Methodology & Theoretical Orientation:** *G. lambia* cysts were isolated from stool samples by sucrose method. Various concentration of the watery and n-hexane extracts of *Stachys lavandulifolia* leaves (2.5, 5, 10, 25, 50 mg/ml, respectively) were used for giardiacidal activity in six different times (1, 5, 30 min, 1, 3 and 6 hours).

**Findings:** The watery and n-hexane extract revealed great activity compared to the control group (P<0.05). The watery extract at the concentration of 100 mg/ml killed 93% of cysts after 6 hours. The n-hexane extract at the concentration of 100 mg/ml killed 100% of cysts after 6 hours. Both extracts showed time and dose dependent antigiardial activity and the n-hexane extract was better than watery extract.

**Conclusion & Significance:** *Stachys lavandulifolia* leaves, as a safe herbal medicine could be confirmed for its antigiardial activity.

## **Biography**

Aroona Chabra has her passion in improving the health and wellbeing in the way of using herbal medicine base of traditional medicine for treating disease.

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