

Title : *In vitro* effect of aqueous extracts from mangosteen rind (*Garcinia mangostana*) on mortality rate of the minute intestinal fluke, *Stellantchasmus* spp.

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ABSTRACT

Stellantchasmus spp. is an intestinal fluke in the family Heterophyidae. It is commonly found in northern and central Thailand. *Stellantchasmus* spp. is an intestinal fluke in the family Heterophyidae. It is commonly found in northern and central Thailand. It is the causative agent of heterophyiasis. Currently, synthetic drugs such as praziquantel are used for treatment but there still are some consequences in particular patients. Herbal remedies are becoming an alternative treatment option. In this study, metacercariae of *Stellantchasmus* spp. were detected in wrestling halfbeak fish (*Dermogenys pusilla*) collected from the canal near Sala Tham, Chiang Mai University, between July 2024 and September 2024. The prevalence of infection was 100% (30/30). The intensity was 54.33 (8–161) metacercariae per fish. The efficacy of aqueous extracts from mangosteen rind (*Garcinia mangostana*) on mortality of *Stellantchasmus* spp. adult stage was examined with the concentrations of 100%, 50%, 25%, 12.50%, and 6.25%, and used 0.85% NaCl solution as control. Mortality of flukes was observed and recorded using the movability Index (MI). The results showed that the highest concentration eliminating all flukes was 100% within 10 minutes. The lowest effective concentration elimination was 6.25% within 75 minutes, while the control group required 120 minutes to eliminate all flukes. In conclusion, the higher the mangosteen rind aqueous extract concentration, the better the mortality of *Stellantchasmus* spp. The result provides a foundation for further research in developing mangosteen rind as a component in antiparasitic medication.

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