EFFECTS OF *Flemingia strobilifera* Linn. (PAYANG-PAYANG) EXTRACT ON BLOOD CHOLESTEROL LEVEL OF ALBINO MICE

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ABSTRACT

This study was conducted to establish the potential of *Flemingia strobilifera* Linn (Payang-payang) in lowering blood cholesterol level of albino mice. Ethanolic crude extract of various plant parts (leaf, root, and stem) were orally administered to the mice daily for four weeks. Twenty seven (27) albino mice were divided into three (3) treatments of extract namely; 100% leaf, 100% stem and 100% root. Each treatment contains three trials with three replicates. Mice were acclimatized for seven days. Then for two weeks, pellets incorporated with 2-3 mg melted margarine were used as high-fat diet. Significant increase was determined by using Paired T-test ($p \leq 0.05$) of blood cholesterol level in mice after the high-fat diet. Blood samples were obtained using vein tail method and analysed in Kernel Multi-check Blood Cholesterol Monitoring kit and cholesterol strips. Results showed that all were significantly reducing ($p \leq 0.05$) the blood cholesterol level in mice. Using one way ANOVA the difference on the ability of each plant part to lower blood cholesterol level was not significant. The statistical analysis showed that the plant parts' efficacy did not have a significant difference ($p \geq 0.05$) in lowering blood cholesterol levels. Hence, all of them had similar amounts of phytosterol and phytophenols.

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