ABSTRACT

The Effect of Ethanol Extract of The Jamaican Cherry Leaves (Muntingia calabura L.) on Total Blood Cholesterol Levels of Male Mice Induced by A High-Fat Feeding

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Background: Dyslipidemia is a metabolic disorder that characterized by an increase in total cholesterol level, serum LDL level and triglycerides level above normal also by decrease in serum HDL level. It will lead to atherosclerosis which is the precursor of vessels disease such as coronary heart disease. Statin is used to reduce cholesterol, but it has side effects especially in long term. According to that condition, alternative medicine is required to prevent dyslipidemia. Jamaican cherry leaves (Muntingia calabura L), a well known traditional medicine contains flavonoid, polifenol and saponin that potential to be developed into hypolipidemic drugs.

Aim: to prove the antihyper lipedemia effect of Jamaican cherry leaves extract (Muntingia calabura L).

Method: This research was using pretest and postest control group design. Four groups of mice were used in this research. Subjects were male mice, 2 months old, fed by high fat feed for 14 days. K1 which consist of eight mice were given CMC Na 1%, K2 were given by simvastatin 1,3 mg/kg/day, K3 and K4 groups which consist sixteen mice in total were given Jamaican cherry leaves extract at dose levels of 15 mg/kg/day and 30mg/kg/day for 14 days.

Result: One Way Anova test result obtained significant value (p) > 0.05 which is showed that no significant difference

Conclusion: Muntingia calabura L. Leaves can reduce dyslipidemia but not significant

Key words: Dyslipidemia, Muntingia calabura L., Total blood cholesterol, High fat feeding.