

Effect of Steeping Rosella Petals with Dayak Onions on Triglyceride Levels in Dyslipidemia Rats

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ABSTRACT

Dyslipidemia occurs due to an increase or decrease in the level of lipid fractions in the body. The increase in the lipid fraction of dyslipidemia has effects increasing of them triglyceride levels. Control of dyslipidemia can be done by consuming functional drinks that contain flavonoids, namely steeping rosella petals with dayak onions. Flavonoids contained in rosella can increase the activity of the lipoprotein lipase enzyme which plays a role in hydrolyzing triglycerides and inhibiting the activity of the HMG-CoA reductase enzyme. The purpose of this study was to determine the effect of giving rosella steeping with dayak onions on triglyceride levels in dyslipidemia rats. This type of research is *True Experimental* with a design *Pretest-Posttest with a Control Group Design*. The samples used in this study were 21 male-laminated rats aged 2-3 months with a body weight of 100-200 grams. The mice were divided into 3 groups, namely the negative control group (K-) given standard feed, the positive control group (K+) given a high-fat diet, the treatment group (P) given a high-fat diet feed and rosella steeping with dayak onions as much as 10ml/mouse/dayfor 14 days. Triglyceride levels are measured by the GPO-PAP method. Data were analyzed using Shapiro Wilk, Kruskal Wallis, One way Anova, and Paired T-test. The test results of pretest triglyceride levels did not have significant differences between groups ($p=0,058$). The results of triglyceride levels in the posttest there was a significant difference ($p=0,023$). The results of triglyceride levels between the pretest and posttest in the treatment group (P) there was a significant difference ($p=0,018$). The test results of the difference between the pretest and posttest did not have a significant difference ($p=0,194$). The application of rosella steeping with dayak onions had no effect on reduce triglyceride levels in dyslipidemia rats.

Keywords: Dyslipidemia, Rosella Steeping with Dayak Onions, Triglyceride.