Effect of Red Dragon Fruit and Ambon Banana Juice on Total Cholesterol Levels (Rattus norvegicus) of Wistar Dyslipidemia Strain

Nabila Dewi Yunitasari
Clinical Nutrition Study Program
Department of Health

ABSTRACT

Dyslipidemia is an abnormality of lipid metabolism characterized by an increase or decrease in the lipid fraction in plasma. This study aims to determine the effect of red dragon fruit juice and Ambon banana on total cholesterol levels in male Wistar rats (rattus norvegicus) with dyslipidemia. This type of research is True Experimental with Pretest-Posttest with Control Group design. This study used 23 male Wistar rats, divided into 3 treatment groups, namely K (-), K (+), and P. group (K-) was given Comfeed AD II, group (K +) was induced with high-fat feed of 15g plus PTU of 1.08ml/head/day for 28 days and group (P) was induced with high-fat feed of 15g plus PTU of 1.08ml/head/day and red dragon fruit juice and Ambon banana 13.2ml/head/day for 14 days. Data were analyzed using the Kruskal Wallis test, Mann Whitney test, and Wilcoxon test. The results of the study showed that the total cholesterol levels in the pretest and post-test in the (K-) and (P) groups had significant differences ($p<0.05$), while in the (K+) group there was no difference ($p>0.05$). The results of the difference test of the total cholesterol levels in the pretest and posttest showed a significance value ($p>0.05$) meaning that there was no significant difference between groups. Administration of red dragon fruit juice and Ambon banana did not affect the total cholesterol levels of dyslipidemic white mice.

Keywords: *Dyslipidemia, Red Dragon Fruit Juice and Ambon Banana, Total Cholesterol*