



De La Salle University – Dasmariñas

**THE EFFECTIVENESS OF NONI JUICE, RED WINE, AND VIRGIN
COCONUTOIL IN LOWERING THE BLOOD CHOLESTEROL
LEVEL OF MALE *Rattus norvegicus* (ALBINO RAT)**

An Undergraduate Thesis Presented to
The Faculty of the Biological Sciences Department
College of Science
De La Salle University – Dasmariñas
Dasmariñas, Cavite

In Partial Fulfillment of the Requirements
for the Degree of Science Major in Human Biology

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February 2008



ABSTRACT

The study is about the effectiveness of noni juice, red wine and virgin coconut oil in lowering the blood cholesterol level of albino rats. The experiment used thirty-six, two month old albino rats, which were divided into four groups. They were acclimatized for one week and given regular diet of pellets three times a day for one week and were given high fat diet that consists of buttered pellets three times a day for one month. Administration of treatment followed wherein T_0 received regular diet, T_1 received 1 mL noni juice, T_2 received 1 mL red wine and T_3 1 mL virgin coconut oil. Blood extraction through cardiac puncture followed after acclimatization, administration of high fat diet and administration of treatment to determine if there is a change in the cholesterol level of the albino rats. Cholesterol level was obtained using blood serum mixed with prepared reagents and analyzed through spectrophotometry.

The data obtained were analyzed using one-way ANOVA which shows that there is significant difference within the treatment group and through the use of scheffe method, T_0 and T_3 were found to have a difference in their means. Paired T-test showed that there is a significant change in the cholesterol level of albino rats after high fat diet and after treatment. The cholesterol level in T_0 and T_2 decreased while the cholesterol level in T_1 and T_3 increased after administration of treatment. The researchers conclude that only red wine exhibited a decreased in the cholesterol level of the albino rats.

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