

# PENGARUH FREKUENSI DAN DOSIS PEMBERIAN VIRGIN COCONUT OIL (VCO) UNTUK MENURUNKAN KADAR KOLESTEROL DALAM DARAH TIKUS PUTIH (*Rattus norvegicus*) ”(Upaya Menemukan Formulasi Penggunaan Minyak Kelapa Murni Untuk Menyembuhkan Hiperkolesterolemia)”

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Biology

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According to the Household Health Survey 2001, circulation disease (heart and blood veins) in Indonesia reached 26,4%. The cause of this disease was collesterrol rate in blood was over normal condition. Along this time, hypercollesterrolemia used synthetic medicine. But the medicine also has side effect like headache, stomachache and tissues pain. There needed alternative medication. One of them was the usage of coconut plant (*Cocos nucifera* L)

This research aimed to find out the frequency of virgin coconut oil given which influenced the difference of collesterrol in white rat (*Rattus norvegicus*) blood, to find out each concentration of virgin coconut oil which was influenced the difference of collesterrol rate inside white rat (*Rattus norvegicus*) blood, and also to find out the frequency combination and concentration of virgin coconut oil influenced collesterrol rate inside white rat (*Rattus norvegicus*) blood. The research kind was true experiment and design used was factorial design. The experiment used complete random design with 5 treatments. (1,8 ml, 2,7 ml, 3,6 ml, 4,5 ml, dan 5,4 ml) and repeated three times. Population of the research was white rat (*Rattus norvegicus*). Sampling was done by Simple random sampling method. The research indicator was total collesterrol, HDL collesterrol, triglycherride, and LDL collesterrol. Data found was analyzed by ANAVA 2 Factors, using t-test and continued with Duncan's with 5% signification.

The research showed that virgin coconut oil frequency influenced the difference of collesterrol inside white rat (*Rattus norvegicus*) blood with best treatment A2 (VCO2 twice a day frequency), in each concentration of virgin coconut oil influenced the difference of collesterrol rate inside white rat (*Rattus norvegicus*) blood with the best treatment B3 (3,6 ml concentration), and combination between frequency and concentration of virgin coconut oil influenced the difference of collesterrol rate inside white rat (*Rattus norvegicus*) blood.