

PENGARUH PEMBERIAN NUTRISI KEDELAI (*Glycine max L.*) TERHADAP PENURUNAN KADAR LDL (Low density lipoprotein) TIKUS PUTIH (*Rattus norvegicus*) YANG DI OVARIETOMI (Model Menopause)



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ABSTRACT

Estrogen hormone lower in menopause female caused by disturbed ovarium. After menopause or post-ovariectomi, there used to a LDL cholesterol rate raised while the receptor for LDL decreased. Estrogen has important role in LDL cholesterol balance and HDL by raising HDL cholesterol characteristic and decreased LDL. Estrogen treatment per oral also protected LDL from oxydation. LDL cholesterol raise and HDL cholesterol decrease is a risk fctor of atheroschlerosys with all it causal. Isoflavone in variousoybean protein and soybean product like tofu, tempe, soybean drink, soybean powder, and protein concentrate food, including fitoestrogen in structural and functional similar with estrogen, so there could be said that soybean has estrogenic characteristic.

The research aimed to find out the influence of soybean nutrition treatment to the decreasing of LDL rate in white rat menopause model also to find out in which dose the soybean nutritien has the best influence to LDL rate decreasing in white rat menopause model.

The research kind was real experiment. Experiment design used was The post test-only control group design. Population in this research was female white rat, samples used were 24 mice made in menopause condition consisted of 3 treatment, they were treatment with dose 1,5 gram, 3 gram, and 4,5 gram/day/mouse, and 6 times repeating. Sampling technique was simple random sampling. Independence variable in this research was soybean nutrition treatment, dependent variable was LDL cholesterol rate in white rat's blood, and control variable was white rat sex, age, food, drink, stable and treatment. LDL rate analysis used was CHOD-PAP method. LDL rate analysis used was one way Anava test. According to one way Anava test F count > F table in significant rate 1% that was $7.7718 > 4.94$ means H_0 rejected so, the treatment of various dose soybean nutrition influencedthe decreasing of menopause white rat LDL rate menopause model. White rat LDL decreasing with this menopause model has positive direction, means that soybean nutrition decreasing would decrease LDL of menopause white rat.