

Substitution of Sembukan Leaf Meal (*Paederia foetida*) in Feed Against Fat and Cholesterol Levels

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ABSTRACT

*This research aims to determine the effect of sembukan leaf flour (*Paederia foetida*) in feed on fat and cholesterol levels in broiler chickens. And what is the best concentration of substitute for sembukan leaf flour (*Paederia foetida*) in feed for fat and cholesterol levels in broiler chickens. The materials used in this research were 200 broiler chickens and sembukan leaf flour. This study used a completely randomized design (CRD) with 4 treatments and 5 replications. The feed treatments given were P0 (100% commercial feed), P1 (commercial feed + 1% powdered leaf flour), P2 (commercial feed + 3% dried leaf flour), P3 (commercial feed + 5% dried leaf flour). The parameters observed in this study were abdominal fat weight, abdominal fat percentage, live weight, carcass weight, carcass percentage, total cholesterol content, high density lipoprotein (HDL), low density lipoprotein (LDL), and HDL and LDL ratio. The data from this research were analyzed using Analysis of Variance (ANOVA) and if there were differences in treatment, it was continued with the Duncan Multiple Range Test (DMRT). The results of this study showed that treatment had no significant effect ($P > 0.05$) on abdominal fat weight, abdominal fat percentage, live weight, carcass percentage and HDL. Treatment had a significant effect ($P < 0.05$) on total cholesterol levels, LDL levels and HDL/LDL ratio. The conclusion of this research is that the use of sembukan leaf flour in feed up to 5% can reduce abdominal fat, percentage of abdominal fat weight, total cholesterol levels, low density lipoprotein and HDL/LDL ratio. Apart from that, it can also increase live weight, carcass weight, carcass percentage and high density lipoprotein.*

Keywords: *Broiler chickens, sembukan leaves, fat, cholesterol levels*