

SUBSTITUTION OF SEMBUKAN LEAF MEAL (*Paederia foetida*) IN THE FEED TO THE WEIGHT OF LYMPHOID ORGANS AND THE RATIO OF LYMPHOCYTE HETEROPHILES IN BROILER BLOOD

Mohammad Anom Suroto

*Poultry Business Management Study Program
Department of Animal Husbandry*

ABSTRACT

*This study aims to determine the effect of using sembukun leaf flour (*Paederia Foetida*) in feed on the weight of lymphoid organs and the heterophil lymphocyte ratio in the blood of broiler chickens. The materials used in this research were 200 broiler chickens, feed and sembukun 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% sembukun leaf flour), P2 (commercial feed + 3% sembukun leaf flour), and P3 (commercial feed + 5% sembukun leaf flour). The parameters observed in this study were the percentage of bursa fabric weight, percentage of spleen weight, percentage of thymus weight and lymphocyte heterophil ratio. The research data 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 showed that the substitution of sembukun leaf flour was not significant ($P > 0.05$) on the percentage of bursa fabric weight, percentage of thymus weight and lymphocyte heterophyll ratio. Treatment had a significant effect ($P < 0.05$) on the percentage of spleen weight. The conclusion of the research results is that the use of sembukun leaves in feed up to 5% can increase the percentage of spleen weight.*

Keywords: broiler, sembukun leaf meal, lymphoid organs, H/L ratio