ABSTRACT

Eric Ocki Ardinata. 24020117130094. Liver Microanatomy of Quail (*Cortunix cortunix japonica*) Inclusion of Moringa (*Moringa oleifera* Lam) Leaf Flour in Feed. Supervised by Muhammad Anwar Djaelani and Sunarno.

Moringa leaves (*Moringa Oleifera* Lam.) can be processed into flour and have been known to contain a variety of nutrients and bioactive compounds, but also contain anti-nutritional compounds that have a negative impact on poultry. Liver is the largest gland and the main metabolic organ in the body that is directly related to food consumption. The purpose of this study was to analyze the effect of Moringa leaf flour as a feed supplement on the microanatomical structure of quail liver. This study used a Completely Randomized Design with the main factors being four concentrations of Moringa leaf flour. The treatment groups included P0, P1, P2, P3, P4 each treatment consisted of 4 replications with 2 quails in each replication. The measurement variables included body weight, liver weight, hepatosomatic index and hepatocyte diameter. The data obtained were analyzed using the Analysis of Variance (ANOVA) test followed by the Tukey test. The results showed that the addition of Moringa leaf flour was 2.5; 5; 7.5, and 10% were not significantly different effect on body weight, liver weight, hepatosomatic index, and hepatocyte diameter. In conclusion, the addition of Moringa leaf flour in feed is safe for quail (*Cortunix cortunix japonica*).

Keyword: *moringa leaf flour, quail, liver, hepatosomatic index*