



PENGARUH LEVEL PROTEIN YANG MENGGUNAKAN ALL GRAIN RATION DAN NON ALL GRAIN RATION TERHADAP TULANG

TIBIA AYAM BROILER

RAHAYU, LINDA, Dr. Ir. Zuprizal, DEA

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Linda Rahayu
(99/126974/PT/03787)

INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh level protein yang menggunakan *all grain ration* dan *non all grain ration* terhadap tulang tibia ayam broiler. Seratus enam puluh ekor ayam broiler strain CP 707 umur 1 minggu dibagi dalam 5 perlakuan. Setiap perlakuan terdiri dari 4 ulangan dan setiap ulangan menggunakan 8 ekor ayam. Lima macam perlakuan ransum adalah: R1 (mengandung protein 22% *non all grain ration*), R2 (mengandung protein 19% *all grain ration*), R3 (mengandung protein 19% *non all grain ration*), R4 (mengandung protein 16% *all grain ration*) dan R5 (mengandung protein 16% *non all grain ration*). Pakan dan air minum diberikan secara *ad libitum*. Pemeliharaan dilakukan selama 5 minggu. Data yang diambil meliputi berat tulang tibia, panjang dan diameter tulang tibia, kadar abu tulang tibia, dan skor tibia *dischondroplasia*/TD. Data yang diperoleh dianalisis dengan menggunakan analisis variansi Acak Lengkap Pola Searah dan bila terjadi perbedaan dilanjutkan dengan Uji Kontras Ortogonal. Hasil penelitian menunjukkan perbedaan yang nyata ($P < 0,05$) pada kadar abu tulang tibia dan skor TD terhadap perlakuan R1, R2, R3, R4, dan R5 dengan rerata kadar abu tulang tibia: 25,73; 20,06; 28,12; 16,31; dan 28,72 (%), dan rerata skor TD: 0,50; 1,00; 0,50; 3,00; 1,75. Sedangkan untuk panjang dan diameter tulang tibia dan berat tulang tibia menunjukkan perbedaan yang tidak nyata terhadap perlakuan dengan rerata panjang tulang tibia: 8,57; 7,58; 7,50; 7,92; dan 8,26 (cm), rerata diameter tulang tibia: 0,86; 0,97; 0,82; 1,16; dan 0,76 (cm), dan rerata berat tulang tibia: 9,59; 9,40; 9,37; 8,06; dan 7,07 (g) untuk perlakuan R1, R2, R3, R4, dan R5 secara berurutan.. Kesimpulan yang dapat diambil adalah pakan dengan protein 22 dan 19% dengan sumber protein *non all grain ration* dapat meningkatkan kualitas tulang tibia pada ayam broiler. Pakan dengan sumber *all grain ration* belum dapat meningkatkan kualitas tulang tibia ayam broiler.

(Kata kunci: Level protein, All grain, Non all grain, Tulang tibia, Broiler)

FENGARUH LEVEL PROTEIN YANG MENGGUNAKAN ALL GRAIN RATION DAN NON ALL GRAIN RATION TERHADAP TULANG TIBIA AYAM BROILER
THE EFFECT OF PROTEIN LEVEL WERE USED ALL GRAIN RATION AND NON ALL GRAIN RATION TO TIBIA BONE OF BROILER CHICKEN

RAHAYU, LINDA, Dr. Ir. Zuprizal, DEA

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Linda Rahayu
(99/126974/PT/03787)

Abstract

The research was conducted to investigate the influence of protein level were used all grain ration and non all grain ration to tibia bone of broiler chicken. One hundred and sixty strain Arbor Acres broiler chickens of 1 week of age were randomly divided into five treatments. Each treatment consisted of four replicates of eight chickens each. Diet divided into five i.e. : R1 (22% level of protein used non all grain ration), R2 (19% level of protein used all grain ration), R3 (19% level of protein used non all grain ration), R4 (16% level of protein used all grain ration) and R5 (16% level of protein used non all grain ration). Feed and water were available *ad libitum*. Experiment was studied in five weeks. Data that were taken consist of the weight of tibia bone, the length and diameter of tibia bone, the ash rate of tibia bone and the score of TD. The data were analyzed statistically by one way anova and continued with Contrast Ortogonal. The result of this study showed that there were significant differences that found on the ash rate of tibia bone and the score of TD to each treatment with the rate of ash tibia bone are : 25.73; 20.06; 28.12; 16.31; and 28.73 (%), and the rate of score of TD are : 0.50; 1.00; 0.50; 3.00; and 1.75. Whereas for the length and diameter of tibia bone and the weigh of tibia bone showed that there were no significant differences to each traetment with the length rate of tibia bone are : 8.57; 7.58; 7.50; 7.92; and 8.26 (cm), the diameter rate of tibia bone are ; 0,86; 0,97; 0.82; 1.16; and 0.76 (cm), and the weight rate of tibia bone are : 9.59; 9.40; 9.37; 8.06; and 7.07 (g) for R1, R2, R3, R4, and R5 treatments by turns. It can be concluded that diet with 22 and 19% level of protein were used non all grain ration could to increase the quality of tibia bone to broiler chicken. Diet were used all grain ration couldn't increase the quality of tibia bone to broiler chicken.

(Keys word : Level of protein. All grain. Non all grain. Tibia bone. Broiler)