

**PENGARUH SUPLEMENTASI TEPUNG LIDAH BUAYA (*Aloe vera*)
DALAM RANSUM TERHADAP KADAR PROTEIN, LEMAK DAN
KOLESTEROL TELUR BURUNG PUYUH
(*Coturnix coturnix japonica*)**

**ARDIMAS DWI UTOMO
NIM : 200220049**

INTISARI*

Penelitian ini bertujuan untuk mengetahui pengaruh suplementasi tepung lidah buaya (*Aloe vera*) dalam pakan terhadap kualitas kimia telur puyuh (*Coturnix-coturnix japonica*) berupa kadar protein, lemak dan kolesterol. Materi yang digunakan dalam penelitian ini adalah burung puyuh betina fase layer umur 10 minggu sebanyak 208 ekor. Penelitian ini menggunakan metode eksperimen dan Rancangan Acak Kelompok (RAK). Perlakuan penelitian adalah level suplementasi tepung lidah buaya dalam pakan puyuh yang terdiri atas 4 perlakuan, yaitu R0 (pakan tanpa penambahan tepung lidah buaya), R1 (pakan +0,5 % tepung lidah buaya), R2 (pakan +1 % tepung lidah buaya), R3 (pakan basal+1,5 % tepung lidah buaya). Setiap perlakuan diulang sebanyak 4 kali, sehingga dibutuhkan 16 petak kandang. Variabel yang diamati adalah Kadar protein telur, kadar lemak telur, dan kadar kolesterol telur puyuh. Metode analisis kadar protein menggunakan *mikro Kjeldahl*, kadar lemak dengan metode *Soxhlet*, dan kadar kolesterol menggunakan metode Spektrofotometer. Data yang diperoleh dianalisis menggunakan analisis varian dan DMRT. Hasil penelitian menunjukkan bahwa suplementasi tepung lidah buaya (*Aloe vera*) dalam pakan tidak berpengaruh nyata terhadap kadar protein dan lemak, akan tetapi berpengaruh nyata terhadap kadar kolesterol. Hasil penelitian mendapatkan bahwa protein telur puyuh masing-masing perlakuan yaitu 11,75, 11,73, 11,46, dan 11,64%, lemak masing – masing perlakuan adalah 11,11, 11,00, 11,00, dan 10,38%, kadar kolesterol masing – masing perlakuan adalah 924,51, 805,98, 721,76, dan 593,19 mg/100g. Kesimpulan suplementasi tepung lidah buaya (*Aloe vera*) sampai level 1,5% terbaik untuk menurunkan kadar kolesterol dan tidak mempengaruhi kadar protein serta lemak telur puyuh (*Coturnix-coturnix japonica*).

Kata kunci; Puyuh, Tepung lidah buaya, protein, lemak dan kolesterol telur

*)Intisari Skripsi Sarjana Peternakan, Program Studi Peternakan, Fakultas Agroindustri, Universitas Mercu Buana Yogyakarta, 2022

**THE EFFECT OF ALOE VERA FLOUR SUPPLEMENTATION IN FEED
ON PROTEIN, FAT AND CHOLESTEROL LEVELS OF
QUAIL (*Coturnix coturnix japonica*) EGG**

**ARDIMAS DWI UTOMO
NIM : 200220049**

ABSTRACT*

This study aims to determine the effect of supplementation aloe vera flour in feed to the chemical quality of quail eggs (*Coturnix-coturnix japonica*) in the form of protein, fat and cholesterol levels. The material used in this study was 208 female quail layer phase aged 11 weeks. This study used experimental methods and Randomized Block Design (RBD). The research treatment was the level of supplementation of aloe vera flour in quail feed which consisted of 4 treatments, namely R0 (feed without the addition of aloe vera flour), R1 (feed +0,5% aloe vera flour), R2 (feed +1% aloe vera flour), R3 (basal feed+1,5% aloe vera flour). Each treatment was repeated 4 times, so 16 cages were needed. The variables observed were egg protein levels, egg fat levels, and quail egg cholesterol levels. The method of analyzing protein content using *micro Kjeldahl*, fat content using the *Soxhlet* method, and cholesterol levels using the *Spectrophotometer* method. The data obtained were analyzed using analysis of variance and DMRT. The results showed that the supplementation of aloe vera flour in the feed had no significant effect on protein and fat levels, but had a significant effect on cholesterol levels. The results showed that the protein of quail eggs in each treatment was 11,75, 11,73, 11,46, and 11,64%, the fat of each treatment was 11,11, 11,00, 11,00, and 10,38%, cholesterol levels of each treatment were 924,51, 805,98, 721,76, and 593,19 mg/100g. Conclusion: Aloe vera flour supplementation with a level of 1.5% was the best for lowering cholesterol levels and did not affect the protein and fat levels of quail eggs (*Coturnix-coturnix japonica*).

Keywords; Quail, aloe vera flour, protein, egg fat and cholesterol

*)Abstract Thesis of S1 Animal Husbandry, Faculty of Agroindustry, University of Mercu Buana Yogyakarta, 2022