

ANALISIS KOMPARATIF *BEHAVIOR*, KESEHATAN DADA DAN KAKI AYAM BROILER PADA LANTAI BERBEDA DALAM KANDANG *DOUBLE DECK* DENGAN SISTEM *CLOSED HOUSE*

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INTISARI

Penelitian ini bertujuan untuk menganalisis *behavior* ayam broiler, kesehatan dada dan kaki ayam broiler, serta membandingkan antar perlakuan lantai atas dan bawah untuk mengidentifikasi adanya pengaruh yang signifikan di Hidayat Farm Klaten, Jawa Tengah. Materi yang digunakan dalam penelitian ini adalah DOC ayam pedaging strain *cobb* sebanyak 1000 ekor (500 ekor di lantai satu dan 500 ekor di lantai dua). Pengambilan data dilakukan dengan menggunakan kamera untuk merekam *behavior* dan mengumpulkan data FPD, *hock burn*, serta *breast dirtiness*. Perlengkapan pemeliharaan meliputi pemanas (*heater*), *feeder tube*, *nipple drinker*, sekat pembatas, lampu, dan penyemprot desinfektan. Bahan-bahan yang digunakan antara lain pakan, air minum, obat-obatan vitamin, sekam, terpal, dan desinfektan. Pengambilan data FPD, *hock burn*, dan *breast dirtiness* dilakukan pada hari ke-35 dengan cara difoto. Data FPD di foto pada bagian telapak, lutut untuk *hock burn* serta bagian dada untuk *breast dirtiness*. Sampel ayam berjumlah 25 ekor setiap lantai. Data *behavior* didapatkan dengan pengamatan melalui rekaman video berdurasi 15 menit di hari ke 7, 14, 21, 28, dan 35 pada pagi pukul 08.00 dan sore pukul 16.00. Parameter yang diamati dari *behavior* ayam broiler antara lain *eating*, *drinking*, *foraging*, *dust bathing*, *sleeping*, *preening*, dan *stretching*. Data penelitian FPD, *hock burn*, dan *breast dirtiness* dianalisis menggunakan uji non parametrik dengan Uji Mann-Whitney, sedangkan pengamatan *behavior* dianalisis dengan *Independent sample T-test*. Hasil penelitian menunjukkan bahwa perbedaan lantai pemeliharaan tidak menunjukkan perbedaan yang signifikan ($P > 0,05$) pada FPD, *hock burn*, dan *breast dirtiness* serta *behavior* ayam broiler.

Kata Kunci : Ayam Broiler, *Behavior*, *Breast Dirtiness*, *Foot Pad Dermatitis*, *Hock burn*.

COMPARATIVE ANALYSIS OF BEHAVIOR, CHICKEN BREAST, AND LEG HEALTH OF BROILER CHICKENS ON DIFFERENT FLOORS IN A DOUBLE DECK CAGE WITH A CLOSED HOUSE SYSTEMS

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ABSTRACT

This research aims to analyze the behavior of broiler chickens, breast health and broiler chicken legs, as well as compare between upper and lower floor treatments to identify significant influences in Hidayat Farm Klaten, Central Java. The material used in this study is 1000 DOC broilers of the Cobb strain (500 on the first floor and 500 on the second floor). Data collection is done by using a device in the form of a camera to record behavior and collect FPD data, hock burn, and breast dirtiness. Maintenance equipment includes heaters, feeder tubes, nipple drinkers, barriers, lamps, and disinfectant sprayers. The ingredients used include feed, drinking water, vitamin medicines, husks, tarpaulins, and disinfectants. FPD, hock burn, and breast dirtiness data collection was done on the 35th day by taking pictures. Data FPD in the photo on the soles of the foot, knee for hock burn and the chest for breast dirtiness. Number of chickens taken was 25 on each floor with a total of 50 chickens for two floors of closed house. Behavioral data was obtained by observation through a 15-minute video recording on day 7, 14, 21, 28, and 35 in the morning at 08.00 and in the afternoon at 16.00. Observed parameters of broiler chicken behavior include eating, drinking, foraging, dust bathing, sleeping, preening, and stretching. FPD, hock burn, and breast dirtiness research data were analyzed using a non-parametric test with the Mann-Whitney Test, while behavioral observations were analyzed with the Independent sample T-test. The research results showed that differences in rearing floors did not have significant differences ($P > 0,05$) FPD, hock burn, and breast dirtiness as well as broiler chicken behavior.

Keyword: Broiler Chicken, Behavior, *Breast Dirtiness*, *Foot Pad dermatitis*, *Hock burn*