



**PENGARUH PHASE FEEDING TERHADAP HIRARKHIS  
FOLIKEL AYAM PETELUR**

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**Intisari**

Penelitian ini dilakukan untuk mempelajari pengaruh perlakuan pakan *phase feeding* (PF) terhadap hirarkhis folikel. Ayam petelur strain *Lohmann Brown* umur 18 minggu sebanyak 120 ekor dibagi dalam 5 kelompok perlakuan yaitu T1: Ayam diberi pakan A sebagai kontrol, T2: Ayam diberi pakan PF umur 19-20 minggu kemudian diberi pakan A, T3: Ayam diberi pakan PF umur 27-28 minggu sebelum dan sesudahnya diberi pakan A, T4: Ayam diberi pakan PF umur 19-20 minggu dan umur 27-28 minggu diantara dan sesudahnya diberi pakan A dan T5: Ayam diberi pakan PF dari umur 19-28 minggu kemudian diberi pakan A. Pakan A yang digunakan mengandung CP 16,48% dan ME 2755 kcal/kg, sedangkan pakan PF mengandung CP 19,46% dan ME 2840 kcal/kg. Penimbangan berat badan dilakukan pada umur 18, 21, 29 dan 33 minggu. Pengukuran berat ovarium, berat lemak abdominal, jumlah dan diameter folikel dilakukan dengan memotong ayam pada umur 21, 29, dan 33 minggu. Data berat badan dianalisis dengan analisis variansi menggunakan rancangan acak lengkap pola searah sedangkan data berat ovarium, berat lemak abdominal dan jumlah folikel dianalisis dengan analisis variansi menggunakan rancangan split plot. Folikel dijumlah dan dihitung reratanya serta dikelompokkan menjadi 4 kelompok berdasarkan diameternya ( $>0,5$  cm). Hasil penelitian menunjukkan perlakuan pakan PF pada umur 19-20 minggu dan 27-28 minggu tidak memberikan pengaruh yang nyata terhadap berat badan, berat lemak abdominal, berat ovarium dan jumlah folikel .

(Kata Kunci: *Phase Feeding*, Hirarkhis Folikel)



**THE EFFECT OF PHASE FEEDING ON OVARIAN FOLLICULAR  
HIERARCHY OF LAYING HENS**

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**ABSTRACT**

This experiment was conducted to determine the effect of phase feeding (PF) on ovarian follicular hierarchy. One hundred and twenty pullets Lohmann Brown of 18 weeks of age were divided into five treatment groups namely, T1: hens were given A diet as a feeding control, T2: hens were given PF on the age of 19-20 weeks and then followed by receiving A diet, T3: hens were given PF diet on the age of 27-28 weeks and A diet were given before and after on the age of 27-28 weeks, T4: hens were given PF diet on the age of 19-20 weeks and age of 27-28 weeks and A diet were given at 21-26 weeks and after age of 27-28 weeks, T5: hens were given PF diet from age of 19-28 weeks and then followed with as A diet. A diet contained 16,48% CP and 2755 kcal/kg ME while PF diet contained 19,46% CP and 2840 kcal/kg ME. Hens were weighted at 18, 21, 29 and 33 weeks of age. Sampel of hens at 21, 29 and 33 weeks of age were slaughtered to measure the ovarian weight, abdominal fat weight, number and diameter of follicles. Complete Randomized Design was used to analyze the effect of treatment on body weight and split plot design was used to analyze ovarian weight, abdominal fat weight and number of follicles. If there were any different between treatments then they were analyzed further with Duncan's Multiple Range Test. Number and mean of follicles were counted and divided into four groups based on diameter (>0.5 cm). The result showed that phase feeding (PF) at 19-20 weeks of age and 27-28 weeks of age did not affect on body weight, abdominal fat weight, ovarian weight and number of follicles.

(Key Words: Phase Feeding, Ovarian Follicular Hierarchy)