

**STUDI PENGARUH PEMBERIAN PREPARAT HORMON  
TESTOSTERON DAN OKSITOSIN TERHADAP  
KUALITAS DAN KUANTITAS EJAKULAT  
AYAM BURAS**

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**INTISARI**

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian kombinasi preparat hormon testosteron dan oksitosin terhadap kualitas dan kuantitas ejakulat ayam buras. Dua puluh ekor ayam buras jantan berumur sekitar 10 sampai dengan 14 bulan dengan berat badan rata-rata 2,0 kg yang dibagi secara acak menjadi dua kelompok, kelompok I sebagai kontrol dan kelompok II sebagai perlakuan. Kelompok I terdiri dari 10 ekor ayam buras jantan yang disuntik 0,2 ml/ekor aquabidestilata steril, sedang pada kelompok II disuntik dengan 0,2 ml/ekor hormon testosteron dan 0,5 ml/ekor hormon oksitosin secara subkutan. Perlakuan hormon tersebut diberikan setiap minggu dua kali untuk enam kali penampungan selama 46 hari. Evaluasi kualitas dan kuantitas sperma meliputi, warna, bau, konsistensi, derajat keasaman (pH), volume (ml), konsentrasi ( $\times 10^6/\text{ml}$ ), motilitas (%), persentase sel sperma hidup (%), dan persentase sel sperma abnormal (%). Data yang didapat kemudian dianalisis dengan menggunakan metode analisis *student's t-test*. Hasil penelitian menunjukkan bahwa dengan pemberian preparat kombinasi hormon testosteron dan oksitosin pada ayam buras jantan dapat meningkatkan kualitas dan kuantitas ejakulatnya dengan sangat nyata ( $P < 0,01$ ) yaitu : volume, motilitas, konsentrasi, sel sperma abnormal, sedangkan persentase sel sperma hidup pengaruhnya berbeda nyata ( $P < 0,05$ ). Warna sperma putih seperti susu, bau yang spesifik yaitu agak amis, konsistensinya agak kental, dan derajat keasaman sekitar 7-8. Dari hasil penelitian ini dapat disimpulkan bahwa dengan pemberian preparat kombinasi hormon testosteron dan oksitosin secara subkutan, secara umum dapat meningkatkan kualitas dan kuantitas ejakulat ayam buras.

(Kata kunci : Ayam buras, Testosteron, Oksitosin, Kualitas, Kuantitas, Ejakulat)

**THE STUDY ON THE EFFECT OF SYNTHETIC TESTOSTERON  
AND OXYTOCIN HORMONE INJECTIONS ON  
THE QUALITY AND THE QUANTITY OF  
LOCAL CHICKENS EJACULATE**

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**ABSTRACT**

The objective of this study was to evaluate effects of combination of the synthetic testosterone and oxytocin hormones injection on the quality and quantity of the local chicken ejaculate. Twenty local chickens at 10 - 14 month of age with the average body weight 2,0 kg were collected and divided randomly in two groups. The first group as controlled group and the second one as a treatment group. The first group consisted of ten local chickens and injected by 0,2 ml sterilized aquabidestilata per each, whereas the second group was subcutaneously injected by 0,2 ml testosterone hormone and 0,5 ml oxytocin hormone per each. The treatment for 46 days of sperm included colors, smells, consistency, pH, volumes (ml), concentration ( $\times 10^6/\text{ml}$ ), motility (%), the percentage of living sperms (%) also the percentage of abnormal sperms (%). The gathered datas were being analyzed using the *student' t-test* analysis method. The results showed that injections of synthetic testosterone and oxytocin hormone combination to local chickens were able to increase not only the ejaculate's quality but also the quantity with total evidences ( $P < 0,01$ ), those included : volume, motility, concentration and abnormal sperm cells, while the percentage of living sperm cells had an immense difference ( $P < 0,05$ ). The sperm color was milky white, with specific smell which was stink, and its consistency was a little thicker with the range of pH from 7 - 8. It was concluded that there were highly significantly ( $P < 0,01$ ) combination increase to the quality and the quantity of local chickens ejaculate after subcutaneous injections of combination synthetic testosterone and oxytocin hormones.

(Key words : Lokal Chickens, Testosterone, Oxytocin, Quality, Quantity, Ejaculate)