

**THE INFLUENCE OF SYNTHETIC GONADOTROPHIN HORMONE
(GnRH) INJECTION ON THE PHYSIOLOGICAL STATUS
AND BLOOD PROFIL OF BLIGON BUCK
SUPPLEMENTED BY CONCENTRATE**

Bambang Suryono
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ABSTRACT

This experiment was conducted to determine the effect of synthetic gonadotrophin releasing hormone (GnRH) injection on the physiological status and blood profile of the Bligon bucks. Ten heads of Bligon bucks in the average two years of age and 17.10 ± 0.21 kg of body weight were randomly separated in two group. Control group (K) was injected with 2 ml per head of sterilized aquabidestilata and treated group (G) were injected with 0.5 ml of syntetic gonadotrophin release hormone per head 2 times a week, lasted in the 12 weeks. Feed based on Elephant grass (*Pennisetum purpureum*) was given ad libitum and concentrate was given $40 \text{ g/kgBW}^{0.75}$ per head per day. Drinking water was given ad libitum. Statistical analysis was done by t-test and showed that physiological status was not different ($P > 0.05$), except body temperature have significantly difference with the average value of K group ($38.74 \text{ }^\circ\text{C}$) and G group (38.90°C). Blood profile variable was not different ($P > 0.05$), except eosinophyl value was significantly difference with continously average eosinophyl value of K group (2.73%) and G group (4.74%). The differences of affected variables were still within the normal range. These could be concluded that Bligon buck could overcome from the stress cause by synthetic hormone (GnRH) injection.

(Key words : Bligon buck, Syintetic gonadotrophin hormone, Physiological status, Blood profile)