PENGARUH PEMBERIAN PREPARAT HORWSON PELEPAS GONADOTROPHIN (GnRH) TERHADAP PERTUMBUHAN L1NGKAR SKROTUM DAN TUBUH KAMBING BLIGON YANG DSBERI PAKAN TAMBAHAN KONSENTRAT

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian preparat hormon pelepas gonadotrophin (GnRH) terhadap pertumbuhan lingkar skrotum dan tubuh kambing bligon yang diberi pakan tambahan konsentrat. Sepuluh ekor kambing bligon dewasa kelamin dengan berat badan 17±0,63kg dibagi secara acak menjadi 2 kelompok, yaitu kelompok kontrol yang disuntik dengan aquabidestilata steril sebanyak 2ml/ekor dan kelompok perlakuan yang disuntik dengan preparat hormon GnRH sebanyak 0,5ml/ekor. Penyuntikan ini dilakukan secara subkutan dua kali setiap minggu selama 84 hari. Rumput Gajah *(Pennisetum purpureum)* diberikan secara *ad libitum,* dan konsentrat sebanyak 40g/kg $W^{0,75}$ per hari. Data yang diperoleh dianalisis dengan metode *Student´s t*. Analisis statistik menunjukkan bahwa pemberian preparat hormon GnRH dengan pakan tambahan konsentrat berpengaruh nyata terhadap konsumsi bahan kering (789 Vs 845; TDN 468 Vs 504; protein kasar 80 Vs 87g/ekor/hari). Pengaruh tidak nyata didapat pada variabel pertambahan lingkar skrotum harian (0,09 Vs 0,15 mm/ekor/hari); pertambahan berat badan harian (35 Vs 44 g/ekor/hari); dan data vital statistik (panjang badan 0,30 Vs 0,32; lingkar dada 0,22 Vs 0,24; tinggi gumba 0,27 Vs 0,29; dalam dada 0,34 Vs 0,35 mm/ekor/hari). Disimpulkan bahwa pemberian preparat hormon GnRH dengan pakan tambahan konsentrat tidak berpengaruh nyata terhadap pertumbuhan lingkar skrotum dan tubuh kambing bligon.

(Kata kunci : GnRH, lingkar skrotum, pertumbuhan, dan kambing Bligon)

EFFECT OF GQWADOTHRGPHIN RELEASING HORMONE (GnRN) APPLICATION ON THE SCROTUM ROUND AND BODY GROWTH OF BLIGON BUCK SUPPLEMENTED WITH CONCENTRATE

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ABSTRACT

This study was conducted to investigate the effect of GnRH application on the scrotum round and body growth of Bligon buck supplemented with concentrate. Ten bucks approximately two years old, with body weight of 17±.63kg were devided into two groups. The first group as control group were injected with 2ml/head sterile *aquabidestilata*. The second group as treatment group were injected with .5ml/head GnRH. Both *aquabidestilata* and GnRH injected subcutaneously, twice a week for 84 days. As basal diet, the bucks were fed *ad libitum* elephant grass (*Pennisetumpurpureum)* and also supplemented with concentrate as much as 40g/kg $W^{0.75}$ per days. The data were analyzed by Student's t test. The study showed that GnRH together with concentrate supplementation had significant effect on dry matter consumption (789 Vs 845; TDN 468 Vs 504; crude protein 80 Vs 87g/head/day), but had no significant effect on the scrotum round (.09 Vs .15mm/head/day), average daily gain (35 Vs 44g/head/day), absolute body length (.30 Vs .32mm/head/day), the breast round (.22 Vs .24mm/head/day), frontal bump (.27 Vs .29mm/head/day), and depth of breast (.34 Vs .35mm/head/day). It might be concluded that GnRH injection with concentrate supplementation had no significant effect on the scrotum round and body growth of Bligon buck.

(Key word : GnRH, scrotum round, growth and Bligon buck)