

**PENGARUH PEMBERIAN VITAMIN E DENGAN LEVEL BERBEDA  
TERHADAP RESPON BIRAH DAN FISILOGIS KAMBING  
BLIGON YANG DISINKRONISASI DENGAN  
CONTROLLED INTERNAL  
DRUG RELEASE**

Brenda Qurnia Sari  
12/ 334245/PT/06303

**INTISARI**

Penelitian ini bertujuan untuk mengetahui pengaruh level pemberian vitamin E pada respon berahi dan fisiologis kambing Bligon yang disinkronisasi estrus menggunakan CIDR (*Controlled Internal Drug Release*). Materi penelitian yang digunakan 12 kambing Bligon betina berumur kurang lebih 1,5 tahun dengan berat badan berkisar antara 19 kg sampai 29 kg yang dibagi menjadi tiga kelompok secara acak P0 (tanpa vitamin), P1 (0,75 g), dan P2 (1,125 g), vitamin E dan *Controlled Internal Drug Release*. Kambing disinkronisasi secara intravaginal dengan CIDR selama 13 hari kemudian diamati respon berahi, gejala berahi dan kondisi fisiologis. Pengamatan gejala estrus dilakukan saat 24 jam setelah pelepasan CIDR setiap 3 jam sekali selama 48 jam. Hasil penelitian dianalisis dengan *one way annova*. Hasil penelitian menunjukkan bahwa secara berturut-turut rata-rata onset estrus setelah pelepasan cidr pada P0, P1, dan P2 adalah jam ke- 27,00±2,44, 30,00±3,46, dan 24,75±1,50 jam. Sedangkan secara berturut-turut rata-rata durasi estrus (jam) P0, P1, dan P2 adalah 30,00±4,24, 23,25±9,60, 32,25±4,50 jam. Temperatur rektal P0, P1, P2 berturut-turut adalah 39,13±0,23, 39,42±0,09, 39,17±0,15°C. Pulsus P0, P1, P2 berturut-turut adalah 74,33±3,78, 75,00±12,67, dan 80,75±3,59 kali/menit. Respirasi pada penelitian berturut turut P0, P1, dan P2 yaitu 34,33±4,04, 42,50±8,66 dan 40,00±8,16 kali per menit. Pemberian vitamin E dengan level 750 mg/ekor dan 1.125 mg/ekor pada pakan tidak mempengaruhi Durasi estrus, gejala-gejala berahi, dan status fisiologi pada kambing Bligon. Kesimpulan dari penelitian ini bahwa pemberian vitamin E dengan level 750 mg/ekor dan 1.125 mg/ekor pada pakan mempengaruhi *onset* estrus pada kambing Bligon.

(Kata kunci : vitamin E, Kambing Bligon, CIDR, Respon berahi, kondisi fisiologis)

**GIVING EFFECT OF VITAMIN E WITH DIFFERENT LEVEL ON  
RESPONSE AND ESTRUS SYMPTOMS AND  
PHYSIOLOGICAL OF BLIGON GOAT THAT  
SYNCHRONIZED WITH CONTROLLED  
INTERNAL DRUG RELEASE**

Brenda Qurnia Sari  
12/ 334245/PT/06303

**ABSTRACT**

This research was conducted to observe the effect of level adding vitamin E on response and estrus symptoms and physiological of Bligon goat synchronized with controlled internal drug release (CIDR). The research used 12 female Bligon goats aged more or less 1.5 years old with body weight between 19 kg until 29 kg were divided into three groups randomly i.e. P0 (without vitamin), P1 (0,75 g), and P2 (1.125 g), vitamin E, and Controlled Internal Drug Release. The goat was synchronized with CIDR as intravaginal for 13 days and then observed the response and estrus symptoms, and physiological. The symptoms of estrus observed after the release of CIDR on 24 hours, it observed three-hours times for 48 hours. The data were analyzed by one way annova. The results showed that the average of onset estrus after release CIDR for P0, P1, and P2 were  $27.00 \pm 2.44$ ,  $30.00 \pm 3.46$ , and  $24.75 \pm 1.50$  hour, respectively. The average duration of estrus for P0, P1, and P2 were  $30.00 \pm 4.24$ ,  $23.25 \pm 9.60$ , and  $32.25 \pm 4.50$  hour, respectively. The average of temperature rectal for P0, P1, P2 were  $39,13 \pm 0,23$ ,  $39,42 \pm 0,09$ ,  $39,17 \pm 0,15^{\circ}\text{C}$ . Pulsus for P0, P1, P2 were  $74,33 \pm 3,78$ ,  $75,00 \pm 12,67$ , and  $80,75 \pm 3,59$  times per minute. The average of respiration for P0, P1, and P2 were  $34,33 \pm 4,04$ ,  $42,50 \pm 8,66$  dan  $40,00 \pm 8,16$  times per minute. Giving vitamin E with a level of 750 mg/head and 1.125 mg/head in the feed did not affect the duration of estrus, estrus symptoms and physiological status in goats Bligon. The conclusion from this study that the give of vitamin E with a level of 750 mg/head and 1.125 mg/head on feed affect the onset of estrus in goats Bligon.

(key words : Vitamin E, Bligon goats, CIDR, Estrus response, Physiological)