

PERBEDAAN TINGKAH LAKU ESTRUS DAN ANESTRUS PADA INDUK KAMBING PERANAKAN ETTAWA

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INTISARI

Penelitian ini bertujuan untuk mengetahui perbedaan tingkah laku induk kambing Peranakan Ettawa (PE) pada saat estrus dan anestrus. Materi yang digunakan terdiri dari 5 ekor induk kambing estrus dan 5 ekor induk kambing anestrus. Setelah diamati kondisi vulva dengan metode pengamatan visual dan *vaginal smear* kemudian dilakukan pengamatan tingkah laku selama 24 jam, meliputi tingkah laku makan, minum, ruminasi, urinasi, defekasi, berdiri, dan berbaring. Data yang diperoleh dianalisis menggunakan analisis rancangan acak lengkap pola searah. Hasil penelitian menunjukkan bahwa tingkah laku induk kambing estrus berbeda nyata ($P \leq 0,05$) dengan induk kambing anestrus. Perbedaan nyata meliputi pada lama makan (estrus $398,80 \pm 127,17$ menit/hari; anestrus $245,00 \pm 40,40$ menit/hari), frekuensi ruminasi (estrus $7,20 \pm 2,28$ kali/hari; anestrus $14,00 \pm 4,74$ kali/hari), lama ruminasi (estrus $96,00 \pm 32,80$ menit/hari; anestrus $244,4 \pm 73,59$ menit/hari), lama berdiri (estrus $1064,80 \pm 162,09$ menit/hari; anestrus $744,80 \pm 182,21$ menit/hari), dan lama berbaring (estrus $351,60 \pm 177,45$ menit/hari; anestrus $862,00 \pm 159,02$ menit/hari). Waktu makan dan waktu berdiri saat estrus meningkat namun frekuensi ruminasi, lama ruminasi, serta lama berbaring menurun pada induk kambing Peranakan Ettawa.

Kata kunci: Tingkah laku, Estrus, Anestrus, Kambing PE.

BEHAVIOR DIFFERENCE OF OESTRUS AND ANOESTRUS ON ETTAWA CROSSBREED GOAT

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ABSTRACT

This study was conducted to identify the behavior differences of oestrus and anoestrus on Ettawa Crossbreed goat. Ten of Ettawa Crossbreed goats were used in this research. The oestrus and anoestrus stage were judged based on vulva condition and vaginal smear. The does behavior were observed for 24 hours. The behavior included frequency of drinking, urination, defecation, frequency and duration of feeding, rumination, standing, and lying. The data was analysed using one way analysis of completely randomized design. The results showed that there were significant differences ($P \leq 0,05$) between oestrus and anoestrus of Ettawa Crossbreed does. The significant differences included duration of feeding (oestrus 398.80 ± 127.17 minutes/day; anoestrus 245.00 ± 40.40 minutes/day), rumination (oestrus 96.00 ± 32.80 minutes/day; anoestrus 244.4 ± 73.59 minutes/day) and standing (oestrus 1064.80 ± 162.09 minutes/day; anoestrus 744.80 ± 182.21 minutes/day). Lying duration of oestrus and anoestrus were 351.60 ± 177.45 ; 862.00 ± 159.02 minutes/day. Rumination frequency of oestrus and anoestrus were 7.20 ± 2.28 ; 14.00 ± 4.74 times/day. It is concluded that the duration of feeding and standing while oestrus were increased, but the frequency of rumination, and duration of rumination and lying were decreased.

Keywords: Behavior, Oestrus, Anoestrus, Ettawa Crossbreed goat.