

TINGKAH LAKU SEKSUAL PEJANTAN DAN INDUK SAPI PERANAKAN ONGOLE DENGAN SISTEM PERKANDANGAN YANG BERBEDA

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INTISARI

Penelitian ini dilakukan untuk mengetahui tingkah laku seksual sapi pejantan dan induk dengan dua sistem perkandungan yang berbeda selama satu siklus estrus. Fase siklus estrus ditentukan berdasarkan perubahan karakter sel-sel epitel vagina. Pengamatan dilakukan selama 24 jam, kelompok pertama sapi pejantan dan induk dipelihara bersama secara *fulltime*, sedangkan kelompok kedua dipelihara bersama secara *intermittent*. Tingkah laku seksual pejantan yang diamati yaitu *Oro-nasal contact* (ONC), *Flehmen*, *Mounds orientation response* (MOR), *Mounds*, dan *Services*. Tingkah laku induk yang diamati yaitu *Mounting*, *Stand to be mounted* (STBM), dan penampakan vulva (warna, kebengkakan, sekresi lendir). Hasil dianalisa dengan *independent T test*. Sapi pejantan pada saat induk estrus yang dipelihara bersama secara *fulltime* dan *intermittent* menunjukkan tingkah laku ONC, *Flehmen*, MOR, *Mounds*, dan *Services* berturut-turut adalah $94,75 \pm 24,55$ dan $16,00 \pm 10,03$; $31,75 \pm 15,80$ dan $7,00 \pm 2,45$; $138,75 \pm 79,73$ dan $35,00 \pm 25,50$; $15,25 \pm 10,50$ dan $7,50 \pm 9,75$; $2,25 \pm 1,26$ dan $4,00 \pm 3,56$ kali per fase. Pada saat induk estrus pejantan yang dipelihara bersama secara *fulltime* menunjukkan respon ONC lebih tinggi ($P < 0,05$) dibanding pemeliharaan bersama secara *intermittent*. Tingkah laku lainnya tidak ditemui perbedaan yang signifikan. Pada saat estrus, induk yang dipelihara bersama secara *fulltime* dan *intermittent* menunjukkan respon menaiki ternak lain, STBM, vulva merah, vulva bengkak dan vulva berlendir berturut-turut masing-masing adalah 25% dan 0%; 100% dan 100%; 75% dan 50%; 75% dan 50%; 100% dan 100%. Respon menaiki ternak lain, vulva merah, dan vulva bengkak lebih tinggi pada pemeliharaan bersama secara *fulltime*, sedangkan STBM dan sekresi lendir saat fase estrus ditemukan pada semua induk di kedua kelompok pemeliharaan. Pemeliharaan bersama secara *fulltime* terbukti meningkatkan respon tingkah laku seksual sapi pejantan dan induk dibandingkan pemeliharaan bersama secara *intermittent*.

Kata kunci: Sapi pejantan, Sapi induk, Tingkah laku seksual, sistem perkandungan

BULL AND COW SEXUAL BEHAVIOR OF ONGOLE GRADE CATTLE WITH DIFFERENT HOUSING SYSTEM

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ABSTRACT

This study was conducted to determine the sexual behavior of bulls and cows with two different housing systems during one estrous cycle. The estrous cycle stage was determined by changing in the character of the vaginal epithelial cells. Observations were carried out for 24 hours, the first group of bulls and cows were kept together in fulltime, while the second group were kept together intermittently. Bulls sexual behaviour were observed including Oro-nasal contact (ONC), Flehmen, Mounts orientation response (MOR), Mounts, and Services, while cows' were Mounting, Stand to be mounted (STBM), and vulvar appearance (color, swelling, secretion of mucus). The data was analyzed by independent T-test. At the time when cows at the estrus stage, bulls that kept together full time and intermittent show ONC, Flehmen, MOR, Mounts, and Services behavior as many as $94,75 \pm 24,55$ and $16,00 \pm 10,03$; $31,75 \pm 15,80$ and $7,00 \pm 2,45$; $138,75 \pm 79,73$ and $35,00 \pm 25,50$; $15,25 \pm 10,50$ and $7,50 \pm 9,75$; $2,25 \pm 1,26$ and $4,00 \pm 3,56$ times per stage, respectively. Bull which were kept together in fulltime while the cows in estrus stage showed a higher ONC response ($P < 0.05$) rather than intermittent group. Other behaviors found no significant differences. At the time of estrus, the cows that kept together in fulltime and intermittent showed the response of mounting, STBM, reddening vulva, swelling vulva and mucous vulva as many as 25% and 0%; 100% and 100%; 75% and 50%; 75% and 50%; 100% and 100%, respectively. The response of mounting, reddening vulva and swelling vulva were higher in fulltime group, whereas STBM and mucous secretion during the estrus stage were found in both groups. Cattle which were kept together in fulltime housing expressed sexual behavior more intense than thus which a kept separately.

Key word: Bull, Cow, Sexual behavior, Housing system