THE CORTISOL LEVEL AND SEMEN QUALITY OF MADURA BULLS IN THE PROCESS OF SEMEN COLLECTION WITH FEMALE TEASERS

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ABSTRACT

The purpose of this study was to determine the effect of using non estrous and estrous female teasers cow towards the blood cortisol levels as an indicator of stress and the quality of the semen produced by Madura bulls. The blood samples were collected from jugular vein of 10 bulls 15 minutes before and after semen collection using artificial vagina. The result showed that blood cortisol levels before and after semen collection by using non estrous and estrous female teasers were no significantly differences between non estrous female teasers (9.16 ± 5.28 and 11.09 ± 5.53 ng/ml), and estrous female teasers (11.9 ± 5.23 and 12.3 ± 3.63 ng/ml) respectively. Assessment of semen quality showed that there were significantly differences in the viability and motility of spermatozoa between treatments. The viability of spermatozoa with non-estrous and estrous female teaser were 64.80 ± 13.18 % and 71.80 ± 14.89 %, meanwhile the motility of spermatozoa with non-estrous and estrous female teaser were 54.50 ± 10.12 % and 63.50 ± 13.75 %. In conclusions, the using of non-estrous and estrous female teasers did not cause stress which proved by not increasing the blood corticol levels, but the treatment with estrous female teasers increased the semen quality.

Key words: Madura bull, non estrous and estrous female teasers, semen quality, cortisol.