

Semen Quality, Ejaculation Time and Level of HSP 70 In Madura Bulls Use Differential Estrus Status of Female Teaser

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ABSTRACT

This research aims to prove the quality of semen that collected from Madura bull with estrus and anestrus female teaser. The levels of HSP 70 was also measured from blood serum before and after semen collection. Calculation ejaculation time on semen collection Madura bulls with estrus female teaser (1.91 ± 0.54), non-estrus female teaser (2.86 ± 0.47). Semen quality examination results showed a real change is on the motility and viability, motility with estrus female teaser (68.75 ± 8.35), non-estrus female teaser (58.13 ± 7.04), viability with estrus female teaser (77.88 ± 7.64), non-estrus female teaser (69.13 ± 10.03). levels of HSP 70 before and after collections with estrus female teaser, before (24.65 ± 8.49), after (22.26 ± 7.12), non-estrus female teaser, before (24.56 ± 7.74), after (22.67 ± 8.51). The use of female teaser cause sexual stimulation in the bulls through the senses of smell and sight from female genital organs, the optic nerves further affect higher release of the testosterone hormone, hence the quality of the semen has better motility and viability than the anestrus female teaser. Calculation of the ejaculation in Madura bulls use estrus female teaser has shorter time than that anestrus. Results of HSP 70 levels in the blood serum of Madura bulls before and after the semen collection, use either estrus female teaser or anestrus female teaser do not show significant difference ($p > 0.05$).

Keywords: Madura bulls, female teaser, semen quality, ejaculation time, level of HSP 70