

عنوان مقاله:

Effects of subcutaneous progesterone injection as a short-time estrus synchronization protocol in ewes: a preliminary study

محل انتشار:

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خلاصه مقاله:

The present study aimed to evaluate the effect of short-time progesterone injection subcutaneously (SC) on estrus synchronization of Baluchi ewes. All ewes received one dose of PGF α (15 mg) and then were divided into two groups. In the P α group, a combination of progesterone and propylene glycol was subcutaneously injected twice at the three-day interval, and a vaginal sponge was used in the control group for 6 days. On day 6, all ewes received 400 IU of eCG. 48h after eCG injection, two rams were introduced into the flock. Blood samples were taken daily from Day 0 to Day 13 to measure serum progesterone concentration. Ultrasonography was used to observe ovaries and monitor their changes at three-day intervals. In P α and control groups, the estrus rate was 88.9% and 100% for P α and control groups, respectively; the duration of estrus for the P α and control groups was 8 and 8.5 days, respectively ($p > 0.05$). No significant difference was observed in the size of the largest follicle and the number of follicles more than 2 mm in diameter between the treatment and control groups. Further studies with some changes and modifications are required for gaining acceptable fertility and prolificacy rates.

کلمات کلیدی:

Estrus, Synchronization, ewe, progesterone, short-time protocol

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