

Estrus Synchronization in Saanen Dairy Goats by Synthetic Hormones

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Abstract Comparison the efficiency of estrus synchronization in 60 Saanen dairy goats by synthetic hormones were assigned to 4 groups equally for estrus synchronization by using intravaginal progestagen pessaries impregnated. The experimental groups are: Group 1 with medroxyprogesterone acetate (MAP); Group 2 with MAP and 125 μ g PGF_{2 α} intramuscular injection; Group 3 with CIDR-G device; Group 4 with CIDR-G device and 125 μ g PGF_{2 α} intramuscular injection. Intravaginal progestagens were administrated for 13 days. Estrus was detected from 12 to 60 hours after progestagens withdrawal and blood samples were collected (10 ml/doe) for serum progesterone analysis at day 1, day 2 and day 23 after progestagens removal. Each synchronized estrus doe was artificial inseminated with frozen semen at once fix time during 48-50 hours after progestagen withdrawal and detected pregnancy by ultrasonography at day 60 after AI. The result showed that estrus responses were all does for treatment group 1, 2 and 4 but just only 10 estrus does for group 3. The mean of onset of estrus between group 1 and 2 were not significantly different (21.0 \pm 1.2 hours and 21.5 \pm 1.3 hours) respectively (p>0.05) but significantly different from group 3 (18.5 \pm 1.9 hours) and 4 (18.6 \pm 2.0 hours) (p<0.05). The mean of estrus period for group 1 to 4 were not significantly different between in four groups (p > 0.05). The number of does with pregnant at day 60 were 2, 3, 4 and 3 respectively (p>0.05).

Keywords: estrus synchronization, medroxyprogesterone acetate, CIDR-G, Saanen goat
