

SUPEROVULATION IN DOES BASED ON FIRST FOLLICULAR WAVE OF THE ESTROUS CYCLE

Fonseca, J.F.¹; Bruschi, J.H.²; Zambrini, F.N.²; Viana, J.H.M.²;
Amorim, L.S.²; Camargo, L.S.O.²

¹Embrapa Caprinos, CP D10, Cep 62.011-000, Sobral-CE, Brasil, jeferson@cnpq.embrapa.br.

²Embrapa Gado de Leite, Rodovia MG 133, Km 42, 36.155-000, Cel Pacheco-MG, Brasil.

The superstimulation of the first ovarian follicular wave of the estrous cycle was tested in seasonal anestrus does. Ten lactation does (2 Saanen and 8 Toggenburg) were assigned to two treatments (T1 and T2). In both treatments, FSH (250UI) was administered in six decreasing doses (25, 25, 15, 15, 10 and 10%, respectively) at 12 interval. In T1 (n=5), does received 37.5 mg d-cloprostenol (day 0 morning), CIDR (days 2 to 5), FSH (days 2 to 4), 37.5 mg d-cloprostenol (day 5 morning) and 500 UI hCG (day 7 afternoon). In T2, does received two doses of 37.5 mg d-cloprostenol at seven days interval (days 0 and 7 morning), FSH (day 9 afternoon and day 12 morning), 37.5 mg d-cloprostenol (day 12 morning) and 500 UI hCG (day 14 afternoon). In both treatments, goats not showed ovarian follicles more than 4 mm diameter at the beginning of FSH administration. Does were mated by fertile bucks and received 37.5 mg d-cloprostenol 12 h before transcervical embryo recovery, six to seven days after the beginning of estrus. The percentage of does in estrus after FSH administration was 100 and 80 % in T1 and T2, respectively. The interval to estrus after second (T1) or third dose of cloprostenol (T2) and the duration of estrus were 28.8 ± 6.6 h and 36.0 ± 8.5 h (T1) and 27.0 ± 6.0 h and 30.0 ± 12.0 h (T2). The average number of structures were recovered was 9.4 ± 3.8 (T1) and 10.5 ± 7.6 (T2). The average number of viable embryos recovered was 8.2 ± 3.5 (T1) and 4.0 ± 7.3 (T2). Both protocols showed to be promising for superovulation in goats. Additionally, it must be emphasized the possibility to obtain embryos from short protocols (14 days, T1) or protocols without use of progesterone or progestagen (T2) during the anestrus season.