

ARTÍCULO CIENTÍFICO

“PROTOCOLS OF SUPEROVULATION USING DIFFERENT DOSES OF EQUINE CHORIONIC GONADOTROPIN (eCG) IN THE SHEEP EMBRYOS PRODUCTION”

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Abstract

The effect of a superovulation and embryo transfer treatment on Dorset Poll sheep (n = 16) in the months of September-October, at Hacienda Zuleta and Anexas S.A. At an altitude of 2885 meters above sea level. On day 0 an intravaginal Chronogest[®] CR sponge was placed for 9 days, on day 7 was administered in Treatment I (1000 IU Folligon[®] eCG) and Treatment II (1500 IU of Folligon[®] eCG) a prostaglandin F2 α (Lutalyse[®] 10mg) analogue was administered on day 9 in conjunction with the removal of the sponge, and at the time of estrus a GnRH analogue (Conceptal[®] 8 μ g) was administered, the artificial insemination was performed at 48 hours post removal of intravaginal sponge. Embryo recovery was performed 6 days later by laparotomy. The number of corpora lutea obtained in treatment I (5,40 \pm 3,02) treatment II (9,80 \pm 5,20). It was demonstrated that (P <0,05) if there is a significant difference in superovulatory response between treatments. The number of embryos obtained treatment I (0,63 \pm 1,41), treatment II (2,13 \pm 2,30) where (P> 0,05) there was no significant difference between treatments. It was concluded that Treatment II, showed a better response to superovulation than Treatment I. However, for the collection of embryos the two treatments do not present any difference.

Keywords: Artificial insemination, corpora lutea, embryo quality, multiple ovulation, synchronization.

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