



Impact of short-term protein supplementation on estrus, ovarian activity, and blood metabolites in Ossimi ewes synchronized with PGF2 α analogue (Cloprostenol) in subtropics

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Abstract:

The aim was to elucidate the effects of short-term, high protein diet on ovarian activity and metabolic status in synchronized Ossimi ewes. Fourteen Ossimi ewes divided into a high protein (HPG; n = 7) and a control group (CG; n = 7). Estrous synchronized using two doses of Prostaglandin F₂ α (PGF₂ α) that were administered 10 days apart. For the five days before the second dose of PGF₂ α , a high protein diet consisting of 20% crude protein was fed to the HPG and the CG was provided a maintenance diet. The estrus period was significantly longer and the ovulation rate was significantly higher in the HPG as compared to the CG (P

Keywords:

Blood metabolites; Follicular dynamic; Protein; Ossimi ewes; Sex hormone

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