Short Communication

Comparison of the patterns of antral follicular development between hormonally synchronized and natural estrous cycles of non-seasonal, polyestrous goats in the tropics

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Abstract

The effects of estrus synchronization with prostaglandin F2α (PGF2α) and Controlled Internal Drug Release Device (CIDR) on ensuing antral follicular development were documented and compared to natural estrous cycles of non-seasonal tropical goats. Two to six follicular waves were observed, with the three-follicular wave pattern being most frequently observed (58%), followed by four follicular waves (31.6%) per estrous cycle. There were no significant differences (p > 0.05) between the PGF2α- or CIDR-synchronized and natural estrous cycles nor between the synchronized and subsequent non-synchronized cycles in terms of the time of ovulation, the duration of inter-ovulatory intervals, daily numbers of antral follicles ≥3 mm in diameter, and the number of follicular waves per cycle in the goats of the present study.

Keywords

Goats; CIDR; PGF2α; Ultrasonography; Follicular waves