

Effect of the use of single dose of prostaglandin $F_{2\alpha}$ in cows after one month of calving, to determine the heat induction in the local cows of suburban area of N'Djamena, Chad

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Corresponding author:**Tellah M****ABSTRACT:**

The objective of this study was to evaluate the effect of the systematic use of a single amount of the prostaglandin $F_{2\alpha}$ after one month of calving on the renewal of sexual activity of beef at Chad. (Sixty five (65) cows of local breeds from N'Djamena urban area were selected and divided into two groups:) Thirty nine (39) cows were treated with Prostaglandin $F_{2\alpha}$, one month after calving and 20 cows as witnesses. More than half (56. 41%) of the cows answered the treatment and 43.59% did not react. The answer varied with the parity (68%) for the first half of the cows against 32% for the multiparous but the body weight at calving did not have an effect. Only, the acceptance of overlapping was retained for the detection of return in heat, which took place on an average of 2.36 ± 0.14 days after treatment. The treatment made it feasible to have one year interval between calving (first heat of 32.36 ± 0.14 days.) Heat thus obtained, can be used as reference to the stockbreeders to program the reproduction of their herd in order to have one year interval calving-calving closed. This test sample gave better indication in first half of the cows while waiting for confirming it in the station.

Keywords:

PGF_{2α}, Single amount, Induction of heat, Postpartum, Bovines, Chad.