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Reproductive performance and progesterone profile in post-partum suboestrous surti buffaloes

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Department of Veterinary Gynaecology and Obstetrics, Navsari Agricultural University, Navsari Campus, NAVSARI (GUJARAT) INDIA **Abstract**: Post-partum suboestrous surti buffaloes of an organized farm confirmed by twice per-rectal palpation 11 days apart from 45 days post-partum were treated with 2 ml (500 μ g) of inj. cloprostenol sodium I/M route in first group (n=6) and 2 ml (500 μ g) of inj. cloprostenol sodium I/M route along with 5 ml inj. Vit. AD₂E preparation and 15 ml inj. Toldimphos sodium preparation I/M route in second group (n=6) on 55 days postpartum after confirmation of ovarian cyclicity. Six animals of same status were kept as control to see the oestrus induction response and conception rate including evaluation of serum progesterone, just before (0 day) treatment and 24 hr, 48 hr and 72 hr after treatment. The service period and oestrus induction interval in days was found significantly lower in PGF₂ α treated (T₁ and T₂) groups as compared to T_a and control group which clear cut showed the luteolytic effect of PGF_a α on ovaries and earlier resumption of ovarian activities as compared to treatment (T_2) and control groups. Statistical analysis of the data generated in respect of the treatment on the progesterone concentration of the blood serum did not show any significant difference among the four groups of suboestrus surti buffaloes at 0 hr (prior to the treatment) and at 24 hr (post-treatment). Moreover, the mean serum progesterone values at 48 and 72 hr post-treatment between T₁ and T_3 (PGF₂ α treated) groups as well as between treatment T_2 (Vit+P) and T_4 group (Control) did not differ significantly. However, the mean serum progesterone levels of T₁ and T₂ (PGF₂ α treated) groups differed significantly from T_2 and T_4 groups at 48 and 72 hr post-treatment.

Key words : Suboestrous surti buffaloes, PGF₂α, Progesterone, Postpartum period

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