IMMUNOMODULATORY EFFECT OF PGF2α IN HF CROSS BRED COW AFFECTED WITH SUBCLINICAL ENDOMETRITIS

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A five years old Holstein Friesian cross breed cow was presented to Large Animal Gynaecology Unit, Madras Veterinary College Teaching Hospital, with the history of showing estrus signs from yesterday evening and had artificially inseminated four times but not yet conceived. On per rectal examination, edematous with thickened uterus and clear, transparent vaginal discharge noticed. The cervical mucus collected in an aseptic procedure was subjected to white side test and Leucocyte esterase strip test and it showed positive for sub-clinical endometritis. The cow was treated with Soln. Leno - 30 ml intrauterine (Levofloxacin hemihydrate, Ornidazole and Alpha Tocopherol acetate) for three days. The animal was injected with PGF2α on 7th day of cycle after confirming the presence of corpus luteum on right side of the ovary. Again, the cervical mucus was collected on 10th day of cycle to rule out sub-clinical endometritis. The cervical sample was negative for above tests and hence animal was inseminated on 10 and 11th day of cycle. The pregnancy was confirmed after 60 days of post insemination by using B mode real time transrectal ultrasonography. Therefore, the present study is indicating that the PGF2α may be used as immunomodulator for cows are affected with subclinical endometritis thus helps to improve the conception rate and breeding efficiency in cattle.

Keywords: Subclinical Endometritis, Cow, White Side Test

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