ABSTRACT
VIII. THESIS ABSTRACT

Title of the thesis : Studies on Treatment of Pyometra in Bitches with Antiprogestins.

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ABSTRACT

Retrospective studies were conducted to assess the influence of age, breed, and parity on the incidence of pyometra in bitches. and Prospective study aimed to evaluate the effectiveness of different treatment protocols for pyometra in bitches. Sixty bitches with pyometra were divided into five equal groups: the surgically treated group, Group V(S) and groups treated with Antiprogestine (Group I (A), Antiprogestins + PGF$_2$α (Group II (AP), Prostaglandin E along with antiprogestins was used in Group III (AE), PGF$_2$α in Group IV (P). A dose of 10 mg/kg of aglepristine was administered orally on days 1, 2, 3 and on day 8. Prostaglandin E at the dose rate of 3ug/kg orally twice daily and PGF$_2$α on days 1,2,3,4, and 5 at the dose rate of 10 ug/kg S/C twice daily as per the requirement of different treatment groups. Before the beginning of the treatments and then on Days 4 and 9 all bitches were evaluated for clinical signs, side effects, hemogram, serum P$_4$ concentrations, and uterine diameter. Bitches in all the treatment groups, with or without initial basal P$_4$ serum concentrations, achieved treatment success without side
effects and no significant differences on Day 9. In all the treatments groups, clinical signs, blood parameters, and uterine diameters improved to normal values throughout the experiments. Group of bitches that received antiprogestins alone showed a recovery rate of 41.66 percent which is lower to all other treatment groups. In addition to Lower recovery there were higher relapse rate and mortality rate of 33.33 percent was observed in this Group. The success rate observed in Antiprogestins + PGF$_2\alpha$ treatment group was 83.33 percent. The side effects observed with the initiation of PGF$_2\alpha$ treatment were, vomiting, straining, diarrhea, pyrexia, and occasional respiratory distress. The misoprostol (Prostaglandin E) along with antiprogestins was used in Group III (AE) bitches with pyometra. Seventy five percent recovery rate was observed with 16.66 percent relapse rate and 8.33 percent mortality rate. Fifty percent success and relapse rate were observed in bitches treated with PGF$_2\alpha$ in Group IV (P).