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*A REVIEW*

# Study on bacterial load and antibiotic sensitivity following $pgf_2\alpha$ therapy in canines open type pyometra

P. Mohan*[1], A.Subramanian[1] **and** A.P. Nambi[2]
Department of Animal Reproduction, Gynaecology and Obstetrics, Madras Veterinary College, Chennai (T.N.) India

**Abstract :** Canine pyometra is a common reproductive disorder of intact diestrual bitch, which warrants early recognition, diagnosis and appropriate treatment to avoid any disastrous consequences. A total of thirty six bitches of different breeds and age were divided into three groups consisting of twelve bitches in each groups, treatment line were Injection $PGF_{2á}$ at the dose rate of 250 µg/kg body weight once daily for five days subcutaneously, Injection $PGF_{2á}$ at the dose rate of 30 µg/kg body weight twice daily for eight days subcutaneously and both the above groups were treated with selected antibiotics based on antibiogram results (various antibiotics like Cefatxime, Amikacin etc were used as per culture and sensitivity on individual case basis result) at standard dosage, Uterine culture from pyometra in bitches revealed E.coli as the main organism 52%followed by streptococcus 16%, Staphylococcus (14%) and Proteus (8%). Antibiotic sensitivity of the above isolates revealed that 55 per cent of isolates was sensitive to Amikacin, 22.22 per cent to Ciprofloxacin, 11.11 per cent to Gentamicin and 11.11 per cent to Chloramphenicol. The most common isolate recorded from canine pyometra was Escherichia Coli which could be attributed to the fact that they are natural microflora in the vaginal passage of bitches, further, it is ideal to conduct an antibiogram while choosing the antibiotics to be administered for therapy of canine pyometra which has provided an appropriate antimicrobial agent for each bitch with pyometra, further it has provided an effective treatment opportunity to prevent antimicrobial resistant problems.

**Key Words :** Open cervix pyometra, $PGF_{2á}$, Bitches, Bacterial culture, Sensitivity

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***Author for correspondence :**
[1]Department of Veterinary Gynaecology and Obstetrics,madras Veterinary College, Vepery (Chenni) India
[2]Department of Clinical Medicine, Jurisprudence and Therapeutics, Madras Veterinary College, Vepery (Chenni) India