

## THERAPEUTIC MANAGEMENT OF PERSISTANT PROESTRUS IN A FEMALE SPITZ DOG

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Prolonged proestrus or persistant proestrous bleeding is a rare condition observed in bitch. Present case is on a spitz bitch, which was presented in Teaching Veterinary Clinical Complex, College of Veterinary Science and Animal Husbandry, DSVCKV, Anjora, Durg; with complain of prolong vaginal bleeding from last 20 days. Vaginal cytology was performed and smear was stained using geimsa staining method. 40 to 50% superficial cells and intermediate cells were seen along with large number of RBC cells. hCG was given along with other supportive treatment. After the treatment, bleeding was reduced and estruses were simultaneously over.

**Keywords:** hCG, Persistant proestrous, Vaginal cytology.

Prolonged proestrus is defined as a proestrous phase that is not followed by an estrous phase and that lasts 3 weeks or longer. A sexual-cycle abnormalities in bitches may present as anestrus, shorter or longer cycles, as well as prolonged proestrus, prolonged estrus, split estrus or anovulatory cycles. These cycle disorders may result from abnormal ovarian functions and are a cause of infertility (Arlt *et al.*, 2011). In bitches with prolonged proestrus, estrus and ovulation do not occur, as the estrogen level insufficiently increases during the proestrous phase (Watts *et al.*, 1998).

### Materials and Methods

The present case a 1 year old spitz was presented in TVCC Durg, with the complain of vaginal bleeding from last 20 to 25 days. On with the complain of vaginal bleeding from last 20 to 25 days. On physical examination all parameters were under normal range. Vulval lips were swollen showing the sign that the bitch is in heat (Fig. 1). On per vaginal examination vaginal bleeding was seen and no growth was observed. Vaginal cytology was performed

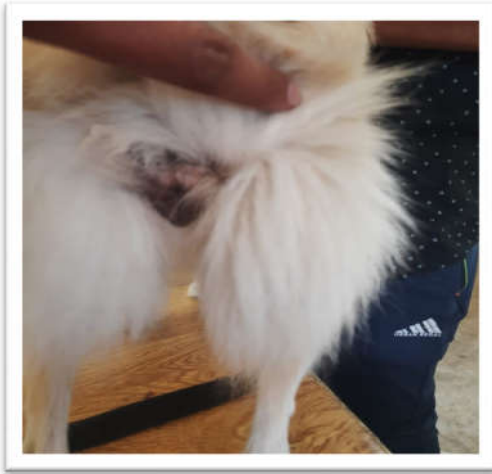
and smear was stained using geimsa staining method. 40 to 50% superficial cells were seen along with large number of RBC cells. Hcg hormone chorulon 500IU was given in 2 days internal intra muscular. After the treatment, bleeding was reduced and estrus was simultaneously over in next 15 days. On vaginal cytology after treatment RBC cells disappeared and only intermediate cells along with few parabasal cells were seen (Fig.2).

### Results and Discussion

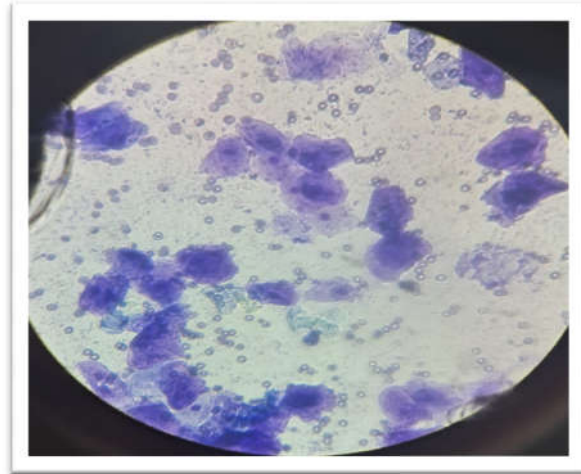
In Prolonged hemorrhagic vaginal discharge, cornified cells are higher than 50–90% on examination of vaginal smear, and serum progesterone level remaining below 2 ng/mL indicate prolonged proestrus as also reported by Davidson and Feldman, 1995.

### Conclusions

There are many factors leading to abnormalities in the sexual cycle of bitches. Accuracy of the diagnosis forms the first step of an effective treatment. Uses of hormones, particularly gonadotropins, come into prominence in the treatment of sexual abnormalities in these animals.



**Fig 1: Vulval lips swollen and showing Hemorrhagic vaginal discharge**



**Fig 2: Vaginal smear showing Intermediate and superficial cells for vaginal cytology**

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