Successful Therapeutic Management of Hydrometra in a Doe- A Case Report

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A B S T R A C T

Hydrometra is one of the causes of infertility in goats and this condition is also called as pseudo pregnancy or cloud burst. A primiparous non-descript doe aged two and half years was presented to Referral veterinary polyclinic (Veterinary Gynaecology and Obstetrics section) of the Indian Veterinary Research Institute, Izatnagar with distended abdomen and history of breeding five months back. On ventral abdominal palpation and per-vaginal examination, no any fetal structures or palpable mass was felt. All the vital parameters were within the normal range. Ultrasonographic examination revealed the presence of anechoic fluid occupying the entire uterus and fetal structures as well as placentomes were absent. The condition was diagnosed as hydrometra. Two doses of Vetmate® Inj. (Cloprostenol- Synthetic Prostaglandin F₂α 250 µg / mL) 125 µg each were given intramuscularly (IM) at 12 days interval. Draining of uterine fluids was observed 3 days after first dose of Vetmate® injection and animal recovered uneventfully.

Keywords
Non-descript doe, Hydrometra, Ultrasonography (USG), Vetmate®

Introduction

Hydrometra is one of the important causes of anoestrus in dairy goats. The incidence of hydrometra varies from 3 to 5% (7.69%) and often seen in herds of dairy goats. It is a major cause of infertility in goats (Souza et al., 2013). It occurs in goats when the corpus luteum (CL) persists in the absence of a viable foetus with constantly elevated plasma progesterone levels (>3 ng/mL) (Hesselink, 1993). This persistent CL induces the blockage of the hypothalamo-hypophyseal axis resulting in cessation of reproductive activity (Kornalijnslijper et al., 1997). The condition is characterized by variable degrees of abdominal distension due to the accumulation of sterile secretions within the uterine lumen i.e. hydrometra (Pieterse and Taverne, 1986) accompanied by a progressive mammary development. A profuse discharge of ‘watery’ fluid occurs on termination of the condition, colloquially referred to as “cloudburst” (Smith, 2001).

History and clinical examination

A two and half years old primiparous non-
The goat was administered 125 µg of Vetmate® Inj. (Cloprostenol- Synthetic Prostaglandin F2α 250 µg / mL) IM on the day of presentation. On day 3rd post treatment, history of clear vaginal discharge and reduction in abdominal distension was reported. Second injection of Vetmate® at the same dose was given after 12 days. Following the second dose, the animal displayed behavioural signs of estrus on third day. The result of the present study is in agreement with Pieterse and Taverne (1986) who reported that a single administration of PGF2α was not sufficient to completely evacuate the fluid present in the uterus and to reduce the recurrence of the condition. Moreover, Hesselink (1993) and Simon et al. (2010) have reported that the double injection regime within an interval of 12 days significantly increased the reproductive performance in goats. Taverne et al. (1995) inferred that accumulation of fluid is the result, rather than the cause of the persistence of the corpus luteum and that the disturbances in either the luteotropic or luteolytic mechanism during the ovarian cycle play an important role in the etiology of this condition.

Results and Discussion

The goat was administered...
In conclusion, hydrometra might not be considered as a disease as it is just a condition that mimics normal and natural pregnancy state of animal without affecting the general health status of the animal. However, because of its economic impact associated with lack of production of viable kids and milk, early diagnosis and treatment of this condition in does is very important for quick return to normal reproductive cycle.

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**References**


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