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**M Murugan**

Assistant Professor, Department of Veterinary Gynaecology and Obstetrics, Veterinary College and Research Institute (TANUVAS), Namakkal, Tamil Nadu, India

**S Raja**

Department of Veterinary Gynaecology and Obstetrics, Veterinary College and Research Institute (TANUVAS), Namakkal, Tamil Nadu, India

**D Gopikrishnan**

Department of Veterinary Gynaecology and Obstetrics, Veterinary College and Research Institute (TANUVAS), Namakkal, Tamil Nadu, India

**M Palanisamy**

Department of Veterinary Gynaecology and Obstetrics, Veterinary College and Research Institute (TANUVAS), Namakkal, Tamil Nadu, India

**M Selvaraju**

Department of Veterinary Gynaecology and Obstetrics, Veterinary College and Research Institute (TANUVAS), Namakkal, Tamil Nadu, India

**S Dharmaceelan**

Department of Veterinary surgery and Radiology, Veterinary College and Research Institute (TANUVAS), Namakkal, Tamil Nadu, India

**Corresponding Author:**

**M Murugan**

Assistant Professor, Department of Veterinary Gynaecology and Obstetrics, Veterinary College and Research Institute (TANUVAS), Namakkal, Tamil Nadu, India

### Uterine prolapse and its successful management in postpartum bitches – Report of six cases

**M Murugan, S Raja, D Gopikrishnan, M Palanisamy, M Selvaraju and S Dharmaceelan**

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#### Abstract

The uterine prolapse and its correction in six postpartum bitches. The prolapsed uterus washed with antiseptic solution (1 per cent potassium permanganate solution) and manual repositioned inside pelvic cavity followed by intramuscular administration of Xylazine (0.5mg/kg), applications of ice packs and pop in spray. After long-term follow-up therapy with Oxytocin (5 IU), antibiotic (Ceftriaxone 10mg/kg), anti-inflammatory (Flunixin meglumine 1 mg/kg) the study reported that the bitches were healthy with no evidence of recurrence.

**Keywords:** Bitch – postpartum uterine prolapse

#### Introduction

The uterine prolapse is a relatively unusual reproductive disorder of postpartum dogs (Vaughan and McGuckin, 1993) <sup>[1]</sup>. It commonly occurs immediately following parturition or 48 hours after delivery of the last puppy and to facilitate immediate management before contamination and mucosal trauma must be regarded as an emergency condition. Uterine prolapse passes through the cervix into the vagina during or after parturition. The prolapse can be complete, with both horns protruding through the vulva or limited to the uterine body and one horn (Feldman and Nelson, 2004) <sup>[2]</sup>.

#### Materials and Methods

The study was conducted in six cases which was complaint of uterine prolapse presented to Veterinary Clinical complex, Veterinary College and Research Institute Namakkal with the history of protrusion of reproductive tract through the vulva followed by whelping. On clinical examination, the animal was dull and depressed and vital parameters were within normal ranges. The prolapsed uterus were (Fig. 1) oedematous, congested and contaminated with dirt. The prolapsed uterine mass washed with 1 per cent potassium permagnate solution followed by ice pack and pop in spray (Natural Remedies PVT) was applied. The cleaned prolapsed uterine mass manually repositioned followed by administration Xylazine (0.5mg/kg) and applications of cetrimide cream for lubrication. Immediately after reposition intramuscular administration of Oxytocin (5 IU) and uterus was flushed with normal saline (500mL) along with metranidazole (100mL) and intravenous administration of Ceftriaxone (10mg/kg), Flunixin meglumine (1 mg/kg) and Ringer's lactate (10mL/Kg) for five days the bitch recovered uneventfully.

#### Result and Discussion

The uterine prolapse in bitch is very rare which commonly occurs during estrus or shortly after parturition due to the fall of serum progesterone and rise of serum estrogen levels. The exact cause of uterine prolapse is unknown in bitches but it may be due to decreased myometrial tone, oversized fetus, and excessive traction and over administration of oxytocin (Hopper, 2007 and Latha *et al.*, 2014) <sup>[3,4]</sup>. The prolapsed mass washing, preferably with antiseptic

solution and ice packs application has proven to be effective in reducing the oedema (Hopper, 2007).

The administration of non narcotic compound (Xylazine) to inhibit nor-epinephrine and dopamine release in central nervous system result in CNS depression leading to sedation, pain relief and muscle relaxation (Slatter, 2003) [5]. Authors found that the administration of muscle relaxant (Xylazine) to facilitate successful manual reposition of the prolapsed mass in postpartum bitches. According to Sathiamoorthy *et al.* (2013) [6] the present study suggests that there is no need for

surgical operation and ovario-hysterectomy in all the cases of uterine prolapse in bitch. The course of antibiotic and anti-inflammatory therapy for five days to prevent infection and oxytocin can be administered to facilitate uterine contraction as well as involution, which will prevent recurrence (Feldman and Nelson, 2004; Abhilash Jadhao *et al.*, 2020) [2, 7]. To concluded, for better prognosis (to avoid ovariohysterectomy), quick and scientific prompt intervention in bitch is suggested.



**Fig 1:** Prolapsed uterus and its management in bitches

**Conflict of Interest**

Not available

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Not available

**Reference**

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