Accidental finding of uterine serosal inclusion cysts in a mongrel bitch: Case report

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DOI: https://doi.org/10.22271/veterinary.2023.v8.i5d.735

Abstract

A Four year old Mongrel bitch was admitted to the Small Animal Gynaecology and Obstetrics Unit, Veterinary Clinical Complex, Veterinary College and Research Institute, Namakkal for sterilization. By medicating was done using Inj. Xylazine 1 mg/kg I/M and Inj. Atropine 0.02 mg/kg S/C. Ketamine injections of 5 mg/kg and injections of 0.5 mg/kg diazepam were used for induction. 2.5 mg/kg of intravenous ketamine was administered for maintenance. The uterus and ovaries were exteriorized during a mid-ventral celiotomy, which was done in accordance with standard operating protocol. By using routine techniques, the animal underwent anesthesia. Pre-medication was done using Inj. Xylazine 1 mg/kg I/M and Inj. Atropine 0.02 mg/kg S/C. Ketamine injections of 5 mg/kg and injections of 0.5 mg/kg diazepam were used for induction. 2.5 mg/kg of intravenous ketamine was administered for maintenance. The uterus and ovaries were exteriorized during a mid-ventral celiotomy, which was done in accordance with standard operating protocol. By using routine techniques, the animal recovered uneventfully.
abdominal muscles were sutured. After the ovariohysterectomy, the bitch underwent post-operative care for five days and made a smooth recovery. On the surface of the uterus, several inclusion serosal cysts have been found during a gross examination of the genital tract. The uterine body and both horns were covered with the cyst. The cyst's diameter ranges from 0.5 to 1.2 cm. Each cyst had a thin wall and held a thin fluid (Fig. 1). Examining the uterus's lumen indicated fluid buildup and thicker endometrium. From the cyst, fluid was removed and sent for analysis. Neutrophils and macrophages were found in moderate numbers in the cystic fluid, according to the investigation. Both of the ovaries were found to be normal upon examination.

**Fig 1:** Uterine serosal inclusion cysts in a bitch

Serosal inclusion cysts are more common in older pluriparous bitches and are typically localized rather than diffused (Kennedy and Miller, 1993; Arnold et al., 1996) [4, 1]. In this instance, cysts covered the entire uterus. On the serosal surface of the uterus, serosal inclusion cysts are fluid-filled cystic formations with thin walls. While uncommon in cats, it is prevalent in dogs. According to T. Sathiamoorthy and S they are frequently many and joined by a thin stalk of serous membrane. According to Godfrey and Silkstone (1998) [3], the cyst is believed to be physiologically dormant and clinically benign without affecting reproductive function. According to hormonal imbalance may be linked to cyst formation. The present bitch had no genital problems and had been littering frequently. On the other hand, Arnold et al., 1996 [1] observed aberrant vaginal discharge in a German shepherd bitch with serosal inclusion cysts for several weeks. In their 2006 investigation on the reproductive disorders of stray bitches, Ortega-Pacheco et al. found that 5% of them had serosal inclusion cysts of uncertain clinical relevance.

**Summary**

A rare case of uterine serosal inclusion cysts in a non-descriptive bitch is reported.

**Reference**