

A VAGINAL FIBROMA IN A POMERANIAN BITCH - A CASE REPORT

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Tumors of vagina and vulva in bitch are rare and account only 2.5-3.0 per cent of the canine tumors (Brodey and Roszel, 1967). The most frequent tumors of vagina and vulva are non-malignant fibroma, leiomyoma or polyps which comprise about 70-80 per cent. The present paper reports a case of vaginal fibroma in a Pomeranian bitch.

Case History and Clinical Observations:

A 4 year old Pomeranian bitch was presented at the college clinic with the complain of large abnormal growth between vulvar lips since last ten days. The appetite of animal was normal and bitch was otherwise healthy and active, except little discomfort at the time of urination.

On clinical examination, a solid, round, tennis ball sized, hard nodular mass was found protruding between vulvar lips (Fig.1). On further exploration, it was observed that the mass was attached by a stump at the floor of vagina just anterior to the urinary meatus, pressing the urethral opening. The mass was soiled with faecal material and was haemorrhagic and ulcerated. Deep digital palpation of vagina revealed no growth in the vaginal lumen. On catheterizing the urethra, no resistance was encountered. It was decided to remove the tumor mass surgically.

Surgical Technique:

The bitch was sedated with Inj. Diazepam 1 mg/kg bw, i/m followed by Inj. Ketamine hydrochloride 5 mg/kg bw, i/v 15 minutes later. The perineum was prepared for surgery by clipping the hair and the tumorous mass was thoroughly washed and cleaned with mild potassium permanganate lotion. A bitch catheter was placed in the urethra and the tumorous mass was excised from the floor of vagina by a careful dissection



Fig. 1. Vaginal tumor in situ and after extirpation.

avoiding the involvement of urethral opening. The bleeding was controlled by application of hemostats and ligation using chromic catgut No. 2-0. The powder Lixen was sprinkled and vaginal mucosa was approximated by simple continuous suture using chromic catgut No. 1-0. The vaginal cavity was irrigated with diluted Wokadine solution followed by normal saline flushing. Post-operatively the animal was given h I/M Inj. of Amoxicillin-Cloxacillin, 250 mg, . Meloxicam, 1.5 ml and , Inj. Pheneramine, 1.5 ml Syrup Amoxicillin-Cloxacillin orally, tid, was prescribed for another 3 post-operative days.

On gross examination, the weight of extirpated tumor was 82.48 gms and the diameter was 6.5 cm (Fig. 1). Histopathological examination revealed interlacing bundles of fibroblasts and collagen fibers arranged in a haphazard fashion. The tumor cells were fusiform to stellate in shape with large, ovoid nuclei. In addition to these, varying degree of vascular changes was also evident. The histopathological findings were suggestive of fibroma.

Discussion:

Neoplasms of vagina of bitch are uncommon and most of the vaginal tumors are benign (Brodey and Roszel, 1967; Shille, 1985). Similarly in the present case also the tumor was non-malignant fibroma. The tumor was pedunculated and attached at the floor of vagina just cranial to the urinary meatus. Barke (1986) opined that most of the vaginal tumor attachment is close to the external urethral orifice. Morrow (1986) noted that pedunculated tumors arising from the vagina are usually leiomyomas or fibromas. Shrivastava et al. (2004) also reported a case of vaginal leiomyoma in a Pomeranian bitch, however it was attached at the anterior vagina. The discomfort experienced by the bitch in present case during urination was due to the pressure exerted by the tumourous mass.

The fibroma was removed surgically. The pedunculated vaginal tumors can be surgically excised as the prognosis for benign tumors is good to excellent (Morrow, 1986; Barke, 1986; Sane et al., 1994). Shrivastava et al. (2004) also removed the vaginal tumor surgically after performing episiotomy. A dorsal episiotomy is indicated where the attachment is cranial in vagina and base of tumor is broad, however in the present case, episiotomy was not required because the attachment of tumor was caudally and approachable.

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