Case Report

FIBROADEN O VA MAMMARY TEMORINA SAMOYED BITCH BY DR AB MEMON

Mammary tumors are most common tumor in female dogs. The greatest frequency of mammary tumors is found in poodles, Boston terriers, fox terriers, Airedale terriers, dachshunds, Great pyreness, Samoyeds, keeshonden and sporting breeds (pointers, retrievers, setters, spaniels).

In dogs, benign tumors are usually classified as benign mixed temors (fibroadenoma, adenomas or benign mesenchymal tumors). Approximately 35% to 50% of conine mammary tumors are malignant (Baba et al. 1985, Ogilvic and Moore, 1995). Malignant mammary tumors spread via lymphatics and blood vessels to the regional lymph nodes and lungs. Other less common metastatic sites include the adrenal glands, kidneys, heart, liver, bone, brain and skin. The mixed manunary tumor is the most commonly identified neoplasm in the bitch Dorn et al, 1968, Moulton et al, 1970). Malignant tumors frequently arise from benign masses (Flower et al., 1974). The cause of mammary gland neoplasia is unknown. However, many are hormone dependent and most can be prevented if ovariohysterectomy is performed before one year of age. The risk of mammary tumors for dogs spayed before first estrus is 0.05%. This risk increases to 8% after one estrus cycle and 26% after the second estrus (Ogilvie and Moore, 1995). Estrogen or progesterone receptors are found in 50% or more of canine mammary carcinmas and 70% of benign carrine mammary tumors (Sartin et al., 1992).

Mammary neoplasms may be solitary or multiple. The most common site for canine mammary tumors is the caudal mammary glands. They are commonly found in both mammary chains. Mammary masses may varies from microscopic to grossly visible of various sizes (2 mm to 8 cm).

Masses may be sessile or pedunculated, solid or cystic and uncerated or covered with skin and hair

HOSTRY:

A 10 months Samoyed bitch was presented because of a solid large lump involving second last caudal left (4th) mammary gland. The owners had noticed small nodule since the dog was of 2 months old.

PHYSICAL EXAMINATION:

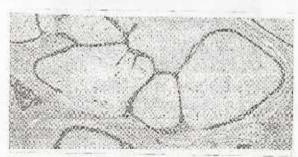
All mammary glands were normal except left caudal 4th mammary gland. Solid consistency and over growth of tissues were observed on physical examination and aspiration. Benign tumor was suspected on physical examination. Tissues from lump were obtained with the help of biopsy punch for further investigation and histological examination.

ULTRASONOGRAPHY:

Ultrasonography was performed to identify the demarcation or abdominal involvement if any. Solid ball like structure was observed under ultrasonography with clear demarcation from abdominal wall.

DIAGNOSIS:

Benign tumor was suspected on physical examination and histopathologically libroadenoma was identified



Place No.(1): Showing proliferation of the connective tissue intersected by duets (filled by proliferated epithelial cells). The nodules of intercanalicular fibroadenomatous tissue are surrounded by bands of denser fibrous tissue.

SURGICAL PROCEDURE:

Dog was pre-medicated with Acepromazine at the dose rate of 0.05 mg/kg. General anaesthesia was administered with thiopental sodium 5% solution at the dose rate of 10 mg/kg. Animal was placed in dorsal recumbency with the thoracic limbs fixed cranially and the pelvic limbs fixed caudally in a relaxed position. The entire abdomen, caudal thorax, and inguinal areas were clipped and prepared for aseptic surgery.

An elliptical incision around the involved mammary gland 1 cm from the tumor was made. Incision was continued through subcutaneous tissues to the fascia of the external abdominal wall. Superficial hemorrhage was controlled with swabbing, hemostats or ligation. An en bloc excision was performed by elevating one edge of the incision and dissecting subcutaneous tissucfrom pectoral and rectus fascia using smooth gliding motion of scissors. Traction was given on the elevated skin segment to facilitate dissection. The caudal superficial epigastric vessel was ligated and the superficial inguinallymph node excised. A 3 inches circular ball like mass weighing 1500 gms was removed (Plate:2), All glandular tissue



Plate (2). Fibroadenoma mass removed from samyoed bitch

Inguinal fat pad, abdominal musculature and a portion of the abdominal wall were removed.

Walking sutures were used to undermine the wound edges and advance skin toward the center of the defect. Subcuticular sutures were used to appose skin edges. A senes of horizontal mattress sutures were placed in the entire length of the wound. A second line of fine, simple interrupted sutures was used to appose the primary wound margins.

POSTOPERATIVE CARE AND ASSESSMENT:

An abdominal bandage was used to support the would, compress dead space and absorb fluid. Bandage was changed daily for the first 3 days. The would was inspected for inflammation, swelling, drainage, scroma, dehiscence etc. Bandages and mattress sutures were removed after 4 days and remaining interrupted sutures 10 days after surgery. Animal was normal and healthy after six months.

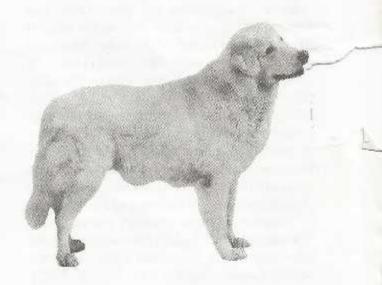


Plate No.(2): Samoyed bitch after 6 months.