

SURGICAL MANAGEMENT OF METASTATIC ADENOCARCINOMA OF LEFT AXILLARY LYMPH NODE IN A DOG – A CASE REPORT

Ramesh Rathod, L. Ranganath, Sangeeta Jadhav, A. S. Patil,
B. N. Nagaraja and N. Nagaraj

Department of Veterinary Surgery and Radiology, Veterinary College, Bangalore 560024.

Adenocarcinoma is a neoplasm affecting mammary glands and glandular tissue. It can also affect the GIT. Female Dogs over 10 years are more susceptible. According to the reports, intestinal tumours are less than 10% in dogs of which lymphoma has been estimated at 29%, adenocarcinoma at 17%, leiomyosarcoma at 23% and small intestinal tumours over 1% (Moore and Vernau, 2000). Adenocarcinoma, although they begin as benign tumour, over the years they can aggravate into malignancy.

A two year old male dog was presented to the Veterinary College Hospital, Bangalore with a history of swelling over the left auxiliary region since two months which did not respond to medical treatment. On physical examination animal was having pyrexia with 102.8^o F, elevated heart rate and respiratory rate. On physical palpation hard mass was felt, not adhering to bony tissue suggestive of tumour

(Fig.1). It was decided for surgical excision.

Dog was prepared for aseptic surgery and premedicated with Atropine sulphate @ 0.045 mg/kg body weight subcutaneous, pre-emptive analgesia with pentazocin @ 1 mg/kg intramuscular, sedation with triflupromazine Hcl @ 1 mg/kg intravenous. After 10 minutes, anaesthesia was induced with 2.5% thiopental intravenously and maintained under halothane oxygen mixture.

Surgical site was painted with povidone iodine. Two curvilinear incisions were made on the mass in such a way that both incisions were connected on each side to make it crescent shaped. Mass was separated from its attachment by blunt dissection (Fig.2). Hemorrhages were controlled by ligation. Subcutaneous tissue suturing was done with chromic catgut size-0 in simple continuous manner and skin was opposed with linex size-0 in horizontal mattress.



Fig. 1 - Mass non-adherent to bony tissue



Fig. 2 – Excised mass

The excised mass upon examination was hard and weighing about 250 gms which was preserved in neutral buffer solution and sent for histopathology which was confirmed as metastatic adenocarcinoma of left auxiliary lymph node. Post-operatively, ceftriaxone (20mg/kg) was administered for 7 days systemically. Skin sutures were removed on

10th post-operative day and Animal recovered uneventfully and no reoccurrence during the study period of one year.

Floeck *et al.*, (2008) reported that Small intestinal adenocarcinoma may be amenable to surgery, but death from metastatic disease occurs within one year. Patnaik *et al.*, (1980) reported 31 cases of intestinal adenocarcinoma

along with 4 cases of carcinoid in 35 dogs. Paoloni *et al.*, (2002) reported ultrasonographic and clinicopathological findings in 21 dogs with intestinal adenocarcinoma and stated that most intestinal lesions were poorly echogenic and had an irregular lumen.

References

Moore, P. F. and Vernau, W. 2000.
Lymphocytes: differentiation molecules in diagnosis and prognosis. In: Feldman BF, Zinkl JG, Jain NC,

editors. Schalm's Veterinary Hematology. 5th ed. Philadelphia: Lippincott Williams & Wilkins. pp. 247–255.

Floeck, M. Hoegler, S. and Krametter-Froetscher, R. (2008). *Veterinarni Medicina*, **53(4)**: 221–223.
Paoloni, M. C. Penninck, D. G. and Moore, A. S. (2002). *Veterinary Radiology & Ultrasound* **43(6)**: 562-567.
Patnaik, A. K. Hurvitz, A. I, and Johnson, G. F. (1980). *Vet Pathol.* **17(2)**:149–163.

SUBSCRIPTION

The Indian Journal of Canine Practice is a biannual Journal. Subscribers will receive June and December Issues during the period of their subscription.

The Subscription rates are as under:-

	India	Abroad
For Institutions	Rs.1000.00	\$100 or £ 72
(Annual subscription only)		
Corporate Members	Free	Free
For Canine Practitioners, Scientists, Academicians and Students		
Annual Subscription	Rs.500.00	\$25 or £ 18
Three Year Subscription	Rs.900.00	\$25 or £ 18
Life Members	Free	Free

Currency abbreviations used are Rs. (Indian Rupees), \$ (US Dollars) and £ (British Pounds)

For subscription, please write to **The Chief Editor, I.J.C.P.**, Advancement of Canine Practice, 21/5, Sector – 21, Indiranagar, Lucknow – 226 016; India.

E-mail: isacp.newsletter@gmail.com; sugandha31@rediffmail.com