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Acronyms and symbols used

Abbreviations		Elaborations
cm	-	Centimeter
et al.	-	And his associates
gm	-	Gram
IU	-	International unit
Kg	-	Kilogram
mg	-	Milligram
mg/kg	-	Milligram per kilogram
ml	-	Milliliter
NO.	-	Number
NSAID	-	Non steroid anti inflammatory drug
SL.	-	Serial
%	-	Percentage
&	-	And

Abstract

A 4.5-years-old Kangayam cow was admitted to the Large Animal Clinics, Veterinary College and Research Institute, Namakkal, India. According to the owner's complain, the cow had a problem during standing position for several days with difficulty in urination and frequent sanguineous discharge from the vagina. The cow was non-pregnant, showing no estrus sign and the last calving was one-and-half-years back. Appetite was normal and the general physical examination revealed no other abnormalities. Clinical examination revealed a tumor like mass attached to the lateral side of vagina, which was confirmed by ultrasonography. After performing the high epidural anesthesia with lidocaine (5mg/Kg) the mass was surgically removed. The dimensions of the mass were 8.5× 4 × 5.4 cm and 100gm in weight. Macroscopically, it was relatively well circumscribed with lobulated and ulcerated surface like cauliflower appearance. After cross section, the mass was homogenously creamy in color with foci of necrosis or hemorrhage. Microscopically, the growth was composed of spindle-shaped fibroblastic tumor that formed interlacing and intersecting bundles. The neoplastic cells showed pleomorphism, karyomegaly with slight nuclear hyperchromatism. On the basis of site, biological behavior, macroscopic and microscopic characteristics, the mass was diagnosed as a well-differentiated fibrosarcoma. A combined drug of penicillin-streptomycin at a dose rate of 30,000 IU/kg body weight for the penicillin and 10 mg/kg body weight for streptomycin was administrated parenterally for 5 days postoperatively. Meloxicam and Pheniramine Maleate were given as NSAID and antihistamine respectively at the rate of 0.5mg/Kg body weight parenterally for 5 days. The cow was fully recovered after 2 weeks of surgery and there was no recurrence found after 2 months of follow up observation.

Key words: Kangayam cow, Fibrosarcoma, Neoplastic cells, India.