

A Case Report of Hemangiosarcoma in Imported Cattle

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Hemangiosarcoma is a malignant tumor of endothelial cells which occurs in horse (Frye, Humphery and Brown, 1983), dog (Kleine, Zood & Munson, 1970, and cat (patnaik & Liu, 1977). it is rarely reported in cattle (Moulton, 1978).

The tumor mostly has been seen in the peritoneal cavity of dog (Oksanen, 1978), however, as far as the authors know, this is the first report of hemangiosarcoma in the peritoneal cavity of cattle in Iran.

A carcase of imported cow was submitted to the Razi Institute from Kamal Abad quarantine station, to diagnose the causal agent of death.

Necropsy approximately 10 litres of sanguineous fluid were observed in the abdominal and thoracic cavities.

The tumor masses were scattered throughout the peritoneal cavity with the sizes ranging from few millimeters to 50 cm. Tumor masses appeared nodular, hemorrhagic and soft by palpation (Fig 1).

The metastatic tumor masses were observed in the lung tissue. Samples of

the internal organs like liver, kidney, lung, Intestine, brain and the tumor mass, were fixed with 10% buffered formalin saline, then sectioned in 6 μ and stained by Haematoxylin & Eosin.

Microscopical findings showed different sizes of vascular spaces with or without red blood cells, which were surrounded by large masses of neoplastic cells. The nuclei of these cells had pleomorphic pattern with mitotic figures. Massive hemorrhages were prominent and the metastatic tumors were found only in the lung tissues.

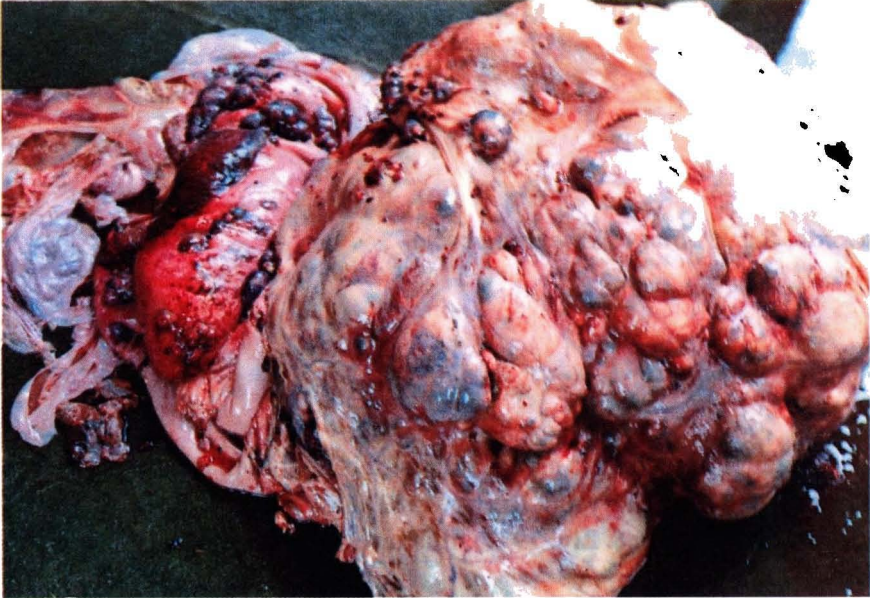


Figure 1: Scattering of tumor mass throughout the peritoneal cavity and the mesenteric membrane.

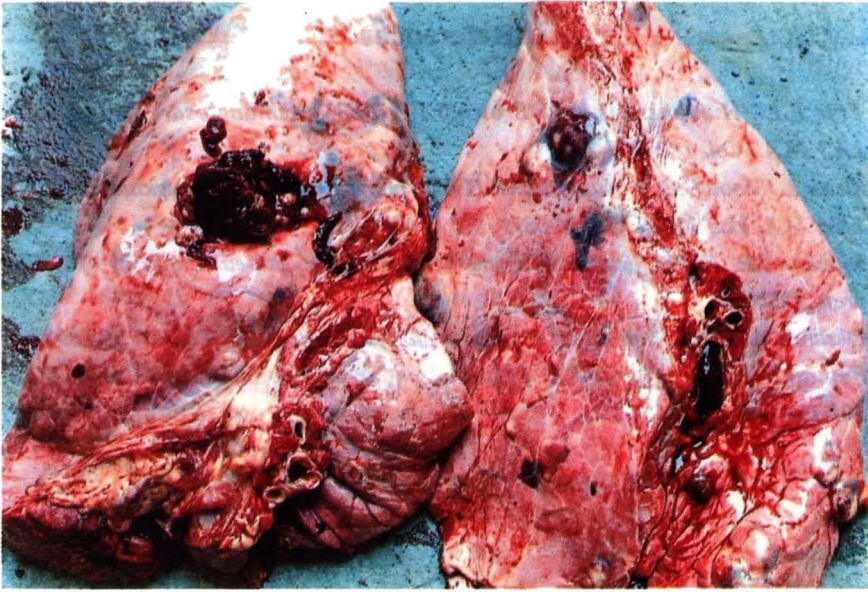


Figure 2: Occurrence of the tumor mass in the lung tissue



Figure 3: Photomicrograph of the tumor mass showing different sizes of neoplastic cells in lung tissue. H&Ex125

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