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Veterinari Medicina

Primary intestinal fibrosarcoma caused by intestinal perforation in a dog: a case report

Avci H, Yaygingul R, Gultekin M, Epikmen ET, Ural K, Belge A, Birincioglu SS:

Veterinari Medicina, 57 (2012): 314-319

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An 11-year-old male Cocker Spaniel was examined for a palpable abdominal mass located in the jejunum after presenting with a history of anorexia and constipation for several weeks. In a contrast radiogram, a structure with well-defined borders adjacent to the intestine was determined. The intestinal mass, measuring 16 × 9.19 × 8.6 cm and weighing 900 g was surgically removed. At gross examination, when the lumen of a portion of the intestine excised together with the tumour mass was exposed, an ulcerated, oval-shaped area 1.2 × 0.6 cm in size was observed on the mucosa. The outer surface of the tumour was homogenous and expanded outwards

from the intestinal wall. Histologically, the tumour was composed of fusiform-elongated spindle-shaped to polygonal neoplastic cells forming interlacing fascicles or interwoven bundles in an atypical herringbone pattern. Immunohistochemically, neoplastic cells stained intensely positive for vimentin, and negative for α -SMA, desmin, cytokeratin (AE1/AE3), S-100 protein, glial fibrillary acidic protein, neuron specific enolase and synaptophysin. On the basis of the histopathological and immunohistochemical results, the tumour was diagnosed as a fibrosarcoma. The present report is a very rare description of fibrosarcoma of the dog intestine associated with intestinal perforation.

Keywords:

dog; fibrosarcoma; intestine; pathology

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