

Primary Leiomyoma of an Ovary in a Dog

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Leiomyoma of the ovary is rare neoplasm in veterinary medicine. Herein, we describe the gross, histopathological and immunohistochemical features of a case of ovarian leiomyoma in a dog. The Yorkshire Terrier, a 10-year-old female, was found accidentally to have an abdominal mass on a pelvic ultrasonography and the mass was on the right of the uterus. A laparotomy revealed a large multi-nodulated ovarian mass. The cut surfaces of the mass showed multiple firm whitish nodules in the cortex and bloody loose connective tissue in the medulla. The cortex of the mass was composed of spindle cells that formed interlacing fascicles. The cells had elongated, blunt-ended nuclei and eosinophilic cytoplasm. The cells were immunoreactive for α -smooth muscle actin and desmin but had negative immunoreactions with vimentin and S-100. The differential diagnosis concluded it was leiomyoma because of the morphology and a conclusive positive test for α -smooth muscle actin and desmin.

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