

Odontoblastic Fibro-Odontoma in a Young Pet Dog

Sun-Hee Do, Won-Il Jeong, Da-Hee Jeong, Kyu-Shil Oh, Won-Seok Oh, Jae-Yong Chung,
Hai-Jie Yang, Dong-Wei Yuan, Dong-Hwan Kim, Gi-Ppeum Lee, Young-Ju Lee,
Tae-Hwan Kim, Oh-Deog Kwon and Kyu-Shik Jeong

*Department of Veterinary Pathology, College of Veterinary Medicine,
Kyungpook National University, Daegu*

Tumors in the jaws that arise from odontogenic (tooth forming) tissues are referred to as odontogenic tumors. Our case is the first one reported in association with the subtypes of odontogenic tumors in canine. We describe the gross, histopathological and immunohistochemical features of a case of odontoblastic fibro-odontoma in a young dog. The Malamute, a seven-month-old male, was found accidentally to have a rubbery mass from left mandible alveolar ridge. Under anesthetized, a biopsy revealed rubbery solid mass with a 3-4cm diameter. On histopathological findings, the tumor revealed a high degree of morphologic differentiation. The hard mass elements actually resembled small deformed teeth containing generally appear as dentin and smaller region of enamel. The tumor revealed transversely proliferation of odontoblast, adjacent to dentin layer, and hyperplasia of fibroblast in dental pulp region in which the cells were immunoreactive for α -smooth muscle actin and Azan stain for collagen fiber. On the basis of these histopathological findings, the tumor is diagnosed as odontoblastic fibro-odontoma. We first report canine odontoblastic fibro-odontoma in mandibular region.

Corresponding author : Kyu-Shik Jeong (053-950-5975, E-mail:jeongks@knu.ac.kr)