

The Ossifying Epulis accompanying Multinucleated Giant Cells, 11-years Female Dog.

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Introduction

An epulis(plural: epulides) is a benign neoplasm derived from the periodontal ligament or connective tissue. They occur commonly in dogs [1]. Epulides can be classified into four types on the basis of histologic appearance: Fibromatous, ossifying, acanthomatous and giant cell [2]. Here we report a case of epulis that shows all features of fibromatous, ossifying and giant cell epulides simultaneously.

Material and Methods

A 11-years female dog, yorkshire terrier, presented to local animal hospital for general physical examination on July 2003, proliferative mass was observed in gingiva of which teeth was absent after extraction. The mass was resected and fixed in 10% buffered formalin and then sections of paraffin-embedded tissues were stained with H&E and applied for histopathological analysis.

Result

Microscopically, our case was non-encapsulated, poorly demarcated, infiltrative, well-vascularized, highly cellular neoplasm and a few mitotic figure, and has hyperplastic epithelium, proliferative fibromatous, osteoid/bone formation lesion and a few multinucleated giant cells(MGCs).

Discussion

We can discuss why MGCs appeared in ossifying epulis. MGCs express the characteristic phenotypes of the osteoclasts [3]. and giant cell epulis usually appear at the site of tooth extraction [4]. MGCs may be appeared to phagocytosis preformed osteoid/bone or our case may be mixed epulides of ossifying and giant cell epulis by mixed stimulation of chronic gingivitis and tooth extraction. Thus, MGCs have possibility enough to appear in ossifying

epulis but ossifying epulis accompanying MGCs have not been reported so, our case deserves an attention due to ossifying epulis accompanying MGCs.

References

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