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Juvenile ossifying fibroma of the maxilla: Differential diagnosis against well-differentiated osteosarcoma

Hidetake Tachinami¹, Kei Tomihara¹, Hriooki Tsuno^{1,2} and Makoto Noguchi¹

¹University of Toyama, Japan

²Saiseikai Toyama Hospital, Japan

Background: Ossifying fibroma is a well-demarcated lesion composed of fibro-cellular tissue and mineralized material of vary appearances. Juvenile ossifying fibroma (JOF) is rare histological variant of ossifying fibroma. It may be sometimes difficult to distinguish JOF from other variety of fibro-osseous lesion. In this report, we present a case of maxillary JOF with some sarcomatoid characteristics suggested well-differentiated osteosarcoma.

Methods: A twenty four-year-old man with a slowly enlarging cheek swelling of right maxilla with some nasal obstruction was referred to our hospital. Status also presented swelling of intraoral site of right maxilla and no paresthesia or eye symptom. Imaging studies showed a multilocular lesion that extended from posterior maxilla to maxillary sinus. Knife edged root absorption of right upper molar was observed; through peripheral bone resorption was not invasive.

Results: Partial maxillectomy was performed, as biopsy specimen was suggested a benign fibro-osseous lesion. Postoperative histology indicated suspicious components of malignant transformation, mitosis or cell invasion to bone area, partially in most of cell-rich observed.

Conclusion: Particularly in young generation, there might be some difficulties to distinguish between JOF and well-differentiated osteosarcoma histologically. It is considered those clinical feathers are as crucial as histological finding in these cases.

Biography

Hidetake Tachinami has completed his D.D.S at the age of 24 years from Nippon Dental University and postdoctoral studies from Toyama University School of Medicine. His research interests include oral lichen planus and oral lichenoid lesion.

hidetake@med.u-toyama.ac.jp

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