Juvenile Ossifying Fibroma: a Case Report with 5-year Follow-up

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INTRODUCTION

Juvenile ossifying fibroma (JOF) is a relatively rare benign fibro-osseous lesion that affects craniofacial skeleton of young patients. It's a locally invasive tumor with high recurrent potential. Has two histologic variants: Psammomatoid Juvenile Ossifying Fibroma (PsJOF) and Trabecular Juvenile Ossifying Fibroma (TrJOF). The TrJOF mainly affects the jaw and typically occurs in individuals aged 2-12. The growth of TrJOF is usually painless, progressive, and may occur with rapid expansion of the affected area. Radiographically, appears as mixed radiolucent radiopaque areas, well-defined and potentially resulting in cortical thinning or perforation.

CASE REPORT

A 9-year-old female with dental crowding, and no other complaints or significant medical history, at clinical examination, revealed an asymptomatic firm vestibular swelling in the left mandibular area, with facial asymmetry. Radiographic analysis revealed a multilocular radiolucency in the left hemimandible, with thinning of the cortical bone, with distal displacement of the second permanent molar germ. Lateral cephalogram indicated expansion of the base of the left hemimandible. The patient was referred to the maxillofacial pediatric unit. The diagnosis of TrJOF was confirmed by histological examination. Surgical resection of the tumor and stabilization of the remaining bone structure to promote osteosynthesis were performed under general anesthesia. She underwent physical therapy for a year. In 2020, returned for prosthetic rehabilitation of the edentulous area. In 2023, after being closely monitored for 4 years, it was allowed to start orthodontic treatment. As of this year, there are no signs of recurrence.

DISCUSSION / CONCLUSION

This report encompasses the clinical findings associated with TrJOF, with a 5-year follow-up. It also emphasizes the importance of early recognition and proper management of this condition, to establish a suitable rehabilitation.

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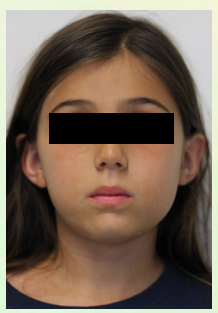
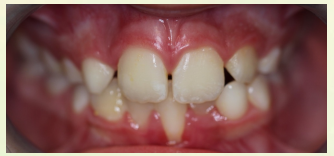
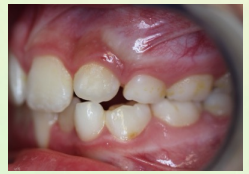
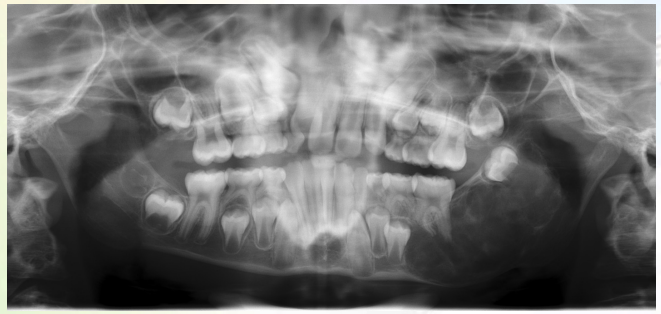
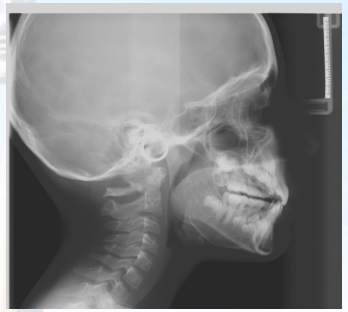

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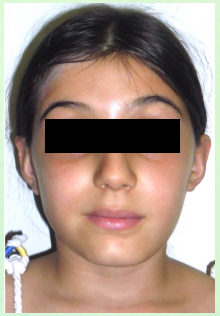
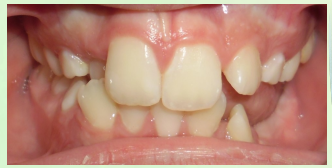
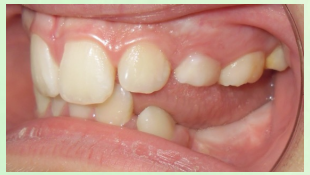
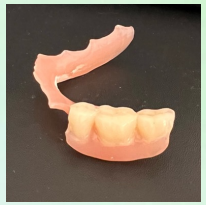
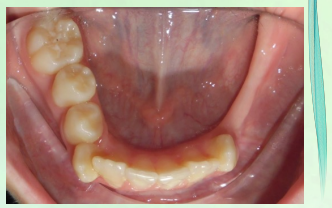

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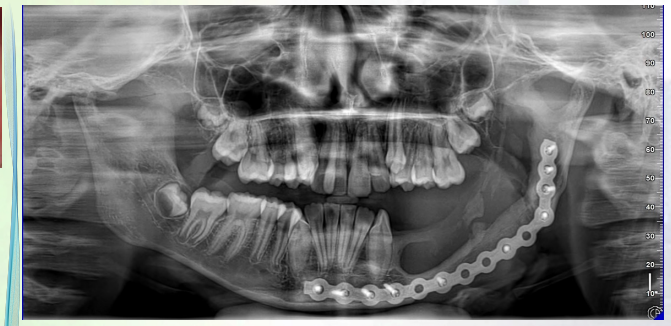
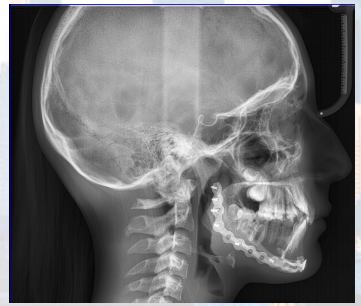

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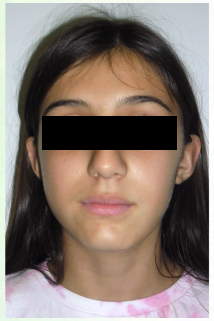
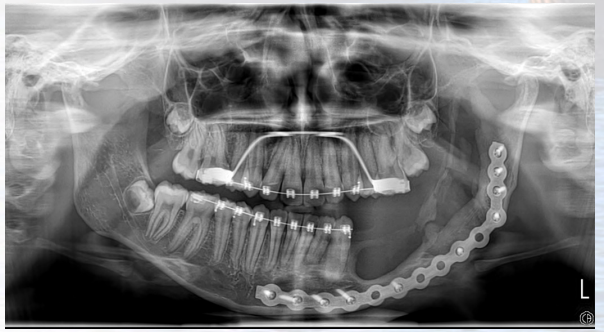

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