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Prasanna Kumar Rao *, Veena KM, Laxmikanth Chatra and Prashanth Shenai Department of Oral Medicine and Radiology, Yenepoya Dental College, Yenepoya University, Deralakatte, Nithyanandanagar Post, Mangalore, Karnataka, India

Abstract

Gemination is an anomaly caused by a single tooth germ that attempted to divide during its development resulting LQ D EL¿G FURZQ 7KH\ DUH IRXQG PRUH IUHTXHQWO\ LQ WKH SUL bilateral gemination is very rare. It is caused by complex interactions among a variety of genetic and environmental factors. This developmental anomaly may cause clinical problems including esthetic impairment, periodontal SUREOHPV FDULHV DQG WRRWK FURZGLQJ +HUH ZH UHSRUW D XQLTXH FDVH RI central incisors.

Keywords: Bilateral gemination; Twin tooth; Double teeth; Bi d had normal compliment of teeth for his age. e intraoral periapical radiograph of the maxillary anterior region revealed large crowns

Introduction

Case Report

radiograph of the maxillary anterior region revealed large crowns of the central incisors bilaterally. A radiolucent notch was observed in relation to the incisal edges of the central incisors (Figure 2). Relatively large pulp chambers and root canada wars observed in relation to the

Radiographically, there is only one root and usually only one root

Tooth gemination is de ned as single enlarged tooth or joined central incisors which suggestive of bilateral gemination.

is counted as one. It is an attempt of a single tooth bud to divide. Since the patient was not concerned about the esthetic problems Clinically a tooth with a bid crown which gives an appearance of ue to Macrodontia only composite restoration in relation to the right double teeth and usually a common root canal but rarely separate romexillary rst molar was done.

canals. Gemination and fusion clinically appears similar and they can iscussion

be di erentiated by assessing the number of teeth in the dentition [1-4].

A disorder of growth or development in the anatomical structures e prevalence rate of unilateral gemination is 0.5% in deciduous that results in anything di erent from normal is called anomaly teeth and 0.1% in permanent dentition [1]. Prevalence of bilateral cases. An attempt of the division of a developing tooth bud resulting is 0.01% to 0.04% in primary dentition and only 0.02% to 0.05% if an incomplete formation of two teeth is called as gemination. permanent dentition [5]. Its crown shows a low deep groove from incisal to gingival third.

Case Report

A 25 year old male patient reported to our clinic with the complaint of decay in the right back region of the upper jaw. On clinical examination dentinal caries was observed on the occlusal surface of upper right rst molar. Macrodontia was observed in relation to the maxillary central incisors. e central incisors were larger in the mesiodistal dimension. ere was a notching present in relation to the Incisal edge of the macrodonts. On the right central incisor, the notch continued cervically as a shallow groove (Figure 1) whereas on the le central incisor the groove continued only till the middle third of the crown. e lateral incisors were placed palatally. e patient





Figure 2: Intra oral periapical radiograph of the maxillary anterior region showing large pulp chambers and root canals.

*Corresponding author: Prasanna Kumar Rao J, Associate Professor, Yenepoya Dental College, Yenepoya University, Nithyananda Nagar Post, Deralakatte, Mangalore, Karnataka, India, Tel: +91 9900151108; E-mail: drjpkrao@gmail.com

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is confused with fusion but con rmed by thorough clinical examination and radiographic investigation. Bilateral Gemination is not a usual condition, but it is one of the important dental anomalies. Recognizing the condition will help in planning the appropriate treatment. A geminated maxillary incisor requires complex multidisciplinary treatment to preserve its health and restore esthetics.

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