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RESEARCH ARTICLE

MULTIPLE IMPACTED SUPERNUMERARY TEETH IN A NON SYNDROMIC PATIENT: A CASE REPORT AND REVIEW OF LITERATURE

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Supernumerary teeth are considered as a bizarre rise in the number of naturally occurring teeth. Only

some examples of nonsyndromic multiple supernumerary teeth have been reported in literature. In this

report, we present a case of multiple unerrupted bilateral supernumerary teeth without any associated

syndrome in a seven year old child as a result of a casual finding during routine X ray study. A

panoramic radiograph revealed multiple impacted supernumerary teeth which were diagnosed during

routine radiographic evaluation. Based on the clinical examination and radiographic investigation, a diagnosis of idiopathic hyperdontia was given. In such cases, management should be planned by a

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ABSTRACT

multidisciplinary approach.

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INTRODUCTION

Supernumerary teeth, also called hyperdontia are those odontostomatologic anomalies that are present in excess of the normal set of teeth. It was first reported between 23 and 79 AD (WZ, 1990). Supernumerary teeth may be defined as any teeth or tooth substance in excess of the usual configuration of 20 deciduous and 32 permanent teeth. A supernumerary tooth is also defined as one that is additional to the normal series and can be found in almost any region of the dental arch (Garvey, 1999). Hyperodontia maybe single, double, or multiple teeth, that occur in one or both jaws; erupted or unerupted and unilateral or bilateral. Supernumeraries are less frequently observed in primary dentition (Szu-Ting Chou, 2015). In majority of the cases, multiple supernumerary teeth are related with other conditions such as cleft lip and palate, or with syndromes like Cleidocranial dysostosis, Gardner's syndrome, Fabry – Anderson's syndrome, chondroectodermal dysplasia, Rothmund – Thompson syndrome and Nance – Horan syndrome (Deepti Amarlal, 2015). Sometimes it can occur without being associated with any syndromes. This is an uncommon condition and mostly asymptomatic. The diagnosis is usually made as a result of a random finding during routine panoramic X-ray studies (Subhadeep Maity, 2015). It can be charaterised as "real" if determined by an increased number of teeth and is considered "false" if caused by a delay in shedding of primary teeth beyond the transition period

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(Thiago de Santana Santos1, 2014). In a study by M. Nazargi Mahabob et al., (2012) in South India, the prevalence of supernumerary teeth was found to be 1.2%, with a greater incidence in males (1.49%) than in females (0.85%). The greatest frequency of supernumerary teeth was found in the maxillary anterior region (77.8%) out of which 85.7% were categorised as mesiodens based on their position (Nazargi Mahabob, 2012). The estimated prevalence in the sub-Saharan Africa and Asian population is reported between 2.7% and 3.4 % with Asians showing a reasonably higher frequency (Ferrés-Padró, 2009). Only 1% of non-syndromic cases have multiple supernumerary teeth, which occur most commonly in the mandibular premolar area, followed by the molar and the anterior regions, respectively (Subhadeep Maity, 2015). Supernumerary teeth are more often found in males than in females. Many authors have reported a male-female ratio of 2:1 (Rajab, 2012). Supernumerary teeth maybe malformed morphologically or normal in size and shape, straight or inverted in position. Cases involving one or two supernumerary teeth show a predilection for the anterior maxilla, followed by the mandibular premolar region. In other regions, differences have been reported in the relative frequency of these teeth. Cases involving multiple supernumeraries (more than five) tend to be commonly seen in mandibular premolar (Rajesh. the region 2014). Chronologically, they are classified as pre-deciduous, similar to permanent teeth, and post permanent or complementary. Topographically, they are described as mesiodens, paramolar, distomolar and para-premolar, and according to orientation as vertical, inverted and transverse; morphologically, they are

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classified as conical, tuberculate, supplemental (eumorphic) and odontome (Parolia Abhisek, 2011). In primary dentition, the typical morphology is normal or conical. In permanent dentition, morphological variation is greater (Szu-Ting Chou, 2015). Both genetic and environmental factors have been considered to play a role in the etiology of supernumerary teeth. The theories put forward are as follows:

- *Atavism theory*, which suggests that supernumerary teeth are a result of phylogenetic reversion to extinct primates with three pairs of incisors- (evolutionary throwback). However, this theory has been largely discounted.
- *Dichotomy theory*, which suggests that the tooth bud splits into two equal or different-sized parts, resulting in the formation of two teeth of equal size, or one normal and one dysmorphic tooth respectively. This theory has also been discounted.
- Dental lamina hyperactivity theory, which suggests localized, independent, conditioned hyperactivity of the dental lamina. According to this theory, a supplemental form develops from the lingual extension of an accessory tooth bud, whereas a rudimentary form develops from the proliferation of epithelial remnants of the dental lamina. Though all theories are hypothetical because of the inability to obtain sufficient embryological material, this is the most accepted theory (Deepti Amarlal, 2013).
- Current genetic studies have also recognized the presence of ectodine, described as a third dentition inhibitor protein (Thumati, 2014; Venkataraghavan, 2011).

The clinical complication associated with supernumerary teeth are eruption failure, rotation or displacement of the adjacent teeth, dilacerations, root resorption, crowding, malocclusion, fistulas and cystic formation, diastema, retention or delayed/ectopic eruption, delayed or abnormal root development of permanent teeth and dental caries and periodontal lesions due to compression of adjacent roots and pulp necrosis (Subasioglu, 2015). Radiographic data for supernumerary teeth are conventionally obtained by periapical, occlusal, panoramic, or cephalometric radiographs. Panoramic radiographs are unreliable for identifying supernumerary teeth as they are located outside the focal trough and are not clearly depicted in the panoramic view. In previous studies, threedimensional images obtained by cone beam computed tomography clearly depicted the orientation of supernumerary teeth, their sagittal position, local disorders, and neighbouring anatomic structures which are useful for pre-treatment evaluation of supernumerary teeth. For these reasons, the routine use of CBCT (cone beam computed tomography) is recommended in patients with supernumerary teeth (Szu-Ting Chou, 2015).

CASE REPORT

A 7 year old boy reported to the department of Pedodontics and preventive dentistry, A.J. Institute of Dental Sciences, Mangalore complaining of decay in his primary teeth in the upper right quadrant. The patient had no complaint of pain or signs of infection and was in good general health. The patient had a normal facial appearance and did not exhibit any physical or skeletal abnormality. Intra oral examination revealed presence of mixed dentition with class I molar relationship and class I canine on the right and left side. Since the parent was concerned about the delayed eruption of the child's permanent upper incisors, an investigative intra oral peri apical radiograph was taken to assess the status of development of 11 and 21. Suprisingly, three radiolucencies which resembled supernumerary teeth were seen in the region anterior to the 11 and 21. An OPG was taken to rule out any unerupted supernumerary teeth (Figure 1) which showed multiple unerupted supernumerary teeth- three in the maxilla and four in the mandible. The OPG revealed normal bilateral condyle and coronoid process with the presence of mixed dentition. There was the presence of erupting tooth buds of maxillary and mandibular canines, premolars, second and third molars and maxillary incisors and mandibular lateral incisors.

The radiograph also revealed the presence of a mesiodens located between the roots of the maxillary primary incisors. There were two supplemental teeth located adjacent to the mesiodens, below the tooth buds of the permanent incisors in the maxilla. There were four impacted supernumerary teeth in the mandible - two canine like supplemental teeth located bilaterally in relation to the developing tooth buds of the mandibular lateral incisors, one supplemental tooth in relation to the erupting 33 and one incisor like supplemental tooth between the roots of 31 and 41. In view of the multiple impacted supernumerary teeth, a clinical examination was done to rule out syndromes associated with multiple impacted supernumerary teeth. Family history revealed that the father had supernumerary teeth. The patient was hence diagnosed with nonsyndromic multiple supernumerary teeth. After a period of 6 months, the patient was recalled to evaluate the status of eruption of the permanent central incisors and the supernumerary teeth. 8X8 CBCT (New Tom 9000) was carried out to evaluate the current status of the teeth and to rule out any fusion of the supernumeraries to the permanent teeth in the maxillary and mandibular regions (Figure 4). The CBCT revealed that the supernumerary teeth (2 supplemental and 1 mesiodens) in the maxillary portion were located palatal to the central incisors and there was no fusion of any of the teeth or signs of disturbance to the path of eruption of the permanent teeth. There was no bone coverage with respect to the permanent central incisors. Controversy exists regarding the optimal treatment time and treatment modality for impacted supernumerary teeth. Inverted and transverse supernumerary teeth would be suggested for surgical removal on first diagnosis and normally oriented supernumerary teeth would be monitored for eruption, in which case simple extraction should be performed (Mallineni and Nuvvula, 2015). According to Garvey et al., extraction is not always the treatment of choice for supernumerary teeth. They may be monitored without removal when satisfactory eruption of related teeth has occurred if there is no orthodontic treatment required, if there is no associated pathology and if removal would prejudice the vitality of the related teeth. In our case, there were no other findings noted on intra-oral examination in terms of any disturbances to the adjacent dentition. The patient was informed about the presence of supernumerary teeth, and a periodic follow up was planned to review the status every six months. Furthermore, extraction was advised with respect to the retained maxillary deciduous incisors. Several authors opted to leave the supernumerary teeth in situ due to the absence of any signs or symptoms that indicated their extraction (Thiago de Santana Santos, 2014).

S.No.	Author	Year	Age/ Sex	No of supernumerary teeth
1	Katsu Takahashi	2016	13/M	6
2	Katsu Takahashi	2016	10/M	5
3	Brigette Wendl	2016	11/M	3
4	C V Cruz	2016	10/M	9
5	Asutay	2015	13/M	11
6	T S Santos	2014	12/F	14
7	Ma Y	2014	14/F	13
8	Lei Yan	2014	14/F	19
9	Mine Bozkurt	2014	10/F	11
10	David Ditto S	2014	11/M	5
11	Dai Juan and Feng Xue	2013	14/M	5
12	Afroz Alam Ansari	2013	14/M	13
13	Ledesma	2012	12/F	12
	Brauer	2012		
14	Yeluri	2012	11/M	6
15	Garcés-Ortíz LM	2012	12/F	12
16	Marilia Nalon Pereira	2011	11/F	31
17	Brauer HU	2010	14/M	13
18	Gomes, Carlos de Oliveira	2008	3 patients, 8-12 years	3 patients collectively developed a total of 17 ST, with 9 found in a single patient

Table 1. Recently reported non Syndromal Multiple Supernumerary teeth



Figure 1. Digital panoramic radiograph showing the presence of 7 supernumerary teeth- three supernumerary teeth seen in the maxillary canine-canine area bilaterally and four in the mandibular canine- canine region bilaterally. The arrows represent the supernumerary teeth

The proposed treatment plan consisted of extraction of the retained deciduous incisors and periodic check-ups. Following administration of local anaesthesia, extraction of the deciduous maxillary incisors was performed to allow the impacted mesiodens to erupt spontaneously or to facilitate its eruption. It has been found that 75% of impacted teeth may erupt within 18 months of removal of the supernumerary tooth (Di Biase, 1969). Presently, the patient is being followed up through semi-annual recall examinations. The decayed teeth were restored followed by preventive oral health measures. Thus, it was decided to allow for the spontaneous eruption of the permanent central incisors and the supernumerary teeth following which the extraction of the supernumeraries would be carried out.

DISCUSSION

A systematic search based on the keywords "Non-syndromic multiple supernumerary teeth" and "multiple supernumerary teeth not associated with syndrome" from of children between 6-14 years having more than 5 supernumerary teeth without any syndromic trait between 2006-2016 yielded 18 favourable results.



Figure 4. Cone beam computed tomography images showing location of supernumerary teeth. (a) Three supernumerary teeth seen in the maxillary anterior cross sectional view (b) Four supernumerary teeth seen in the mandibular cross sectional view, as a cluster of two impacted teeth on each side all of which were anteriorly located; (c and d) Three dimensional reconstruction of the anterior portion of the maxilla and mandible showing a total of 7 supernumerary teeth all of which were unerupted

According to a study by Yusof *et al.*, the prevalence for nonsyndrome multiple supernumerary teeth, five or more in number, is >1% with a male to female ratio of 9:2 (Thumati, 2014). In this case, the supernumerary teeth were found in the mandibular and maxillary canine - canine region. In the patient reported herein, supernumerary teeth were not related to any syndromes nor associated with any systemic condition. The hereditary factor is believed to be important for the development of supernumerary teeth. There may be transmission of a recessive or dominant autosomal trait with incomplete penetrance, or the condition may be associated with an X chromosome (Thiago de Santana Santos, 2014). It has been stated that in cases of hyperdontia with one to four supernumerary teeth, the supernumerary teeth are localized in the upper anterior and molar region, while multiple supernumerary teeth (i.e. five or more) are seen in the lower jaw and generally in the premolar region. However, where "multiple supernumerary teeth" is taken to mean five or more supernumerary teeth, the prevalence has been reported as 0.06% according to Acıkgoz *et al.*, 2006.

Multiple supernumerary teeth are rare, with a reported prevalence of 0.2 to 0.8% in deciduous dentition and 0.5 to 5.3% in permanent dentition with geographic variations (Thiago de Santana Santos, 2014). In addition, the occurrence of multiple supernumerary teeth is less common than the occurrence of a single supernumerary tooth and is even rarer in the absence of a systemic condition or syndrome (Rajabm, 2002; Moraes, 2007). Studies show that 76 - 86% of non syndromic cases involve only one supernumerary tooth and that 12 to 23% of cases present two supernumerary teeth. Analysis of supernumerary teeth cases shows that the variation is small, with the presence of one or two supernumerary teeth being more frequent. A single supernumerary tooth occurs in 72 to 77% of cases, two occur in 18 to 27%, and three in only 1 to 5% (Thiago de Santana Santos, 2014). The incidence of supernumerary teeth is generally higher in males (Wan Hassan, 2012), affecting premolars in approximately 10% of cases and almost 75% of these cases occur in the mandible. Only 1% of nonsyndromic cases present multiple supernumerary teeth, which occur more frequently in the area of the mandibular premolars and in the anterior region (Thiago de Santana Santos, 2014). CBCT is the method of choice for this owing to its lower radiation dose and cost compared to CT. The karyotype determination is another useful method for excluding a chromosomal pathogenesis in cases of multiple nonsyndromic supernumeraries (Thumati, 2014). Management of supernumerary teeth should be a part of a comprehensive treatment plan. There are several controversies and variety of opinion among the authors regarding the timing of removal of supernumerary teeth. Rotberg et al. (1984) suggested that extraction should be initiated before 5 years of age, so that root formation of permanent incisors is incomplete. According to Hogstrum and Andersson et al. (1987) supernumerary teeth should be removed as soon as diagnosed. Later they suggested it could be left until the root development of the adjacent tooth is complete. In the year 2008, Shah et al suggested that if the supernumerary teeth causes no complications and are not likely to interfere with orthodontic tooth treatment, they can be monitored with the yearly radiographic review. Omar et al. (2010) suggested that if there is no adverse effect associated with supernumerary teeth and if no future orthodontic intervention is foreseen; immediate surgical intervention is not recommended (Deepti Amarlal, 2013; Subhadeep Maity, 2015).

Conclusion

Different management options are available for patients with multiple hyperdontia not associated with complex syndromes, which may include extraction, followed by orthodontic treatment to ensure proper occlusion or continuous periodic monitoring of such teeth to minimize the risk of complications secondary to them. On diagnosis, each case should be managed appropriately in order to minimize complications to the adjacent dentition.

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