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UNUSUAL PRESENTATION OF FOUR NATAL MOLARS AND ONE INCISOR IN THE SAME PATIENT: A CASE REPORT

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ABSTRACT

Introduction: Natal teeth are dental organs present at birth. The worldwide prevalence of natal teeth is 34.55 per 10,000. In 90% of cases, they are primary teeth, while in 10% of cases, they are supernumerary teeth. **Case report:** A 3-day-old male patient with a family history of natal teeth on the paternal side. Without pathological antecedents, the patient has received complete immunization according to his age, as well as the administration of vitamin K at birth. Intraoral examination revealed the presence of 5 dental organs diagnosed as natal teeth, including: 1 upper right molar, 1 upper left molar, 1 lower right molar, 1 lower right molar, and 1 lower central incisor. These teeth were observed to be hypermobile, mucosa-supported, and with generalized hypoplasia. The treatment of choice was the extraction of all five dental organs, under local anesthesia with 2% lidocaine. There were no complications, neither during the surgical procedure nor afterward. **Conclusion**: Dental extraction was the elective treatment in this case. No local or general complications were reported. The treatment of natal teeth should be personalized, taking into account the variables of each case.

KEYWORDS: Natal teeth; pediatric dentistry; supernumerary teeth.



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PRESENTACIÓN INUSUAL DE CUATRO DIENTES NATALES MOLARES Y UN INCISIVO EN EL MISMO PACIENTE: REPORTE DE UN CASO CLÍNICO

RESUMEN

Introducción: Los dientes natales son órganos dentarios que se presentan al nacimiento y los dientes neonatales son aquellos que erupcionan durante el primer mes de vida. Su incidencia es de 1 de cada 2,000 nacidos vivos, en el 90% de los casos se trata de dientes temporales y en el 10% se trata de dientes supernumerarios. El manejo de estos dientes depende de múltiples factores. La extracción está indicada cuando el diente es supernumerario o presenta hipermovilidad. **Reporte del caso clínico**: Paciente masculino de 3 días de nacido, con antecedentes de padre y abuelo paterno con dientes natales. A la exploración intraoral se observó la presencia de 5 órganos dentales, los cuales fueron diagnosticados como natales de los cuales se reporta: 1 molar superior derecho, 1 molar superior izquierdo, 1 molar inferior derecho, 1 molar inferior. Los cuales se observaron con hipermovilidad, mucosoportados y con hipoplasia generalizada. El tratamiento de elección fue la extracción de los cinco órganos dentales, para realizar este procedimiento se infiltro lidocaína al 2%. Conclusión: La extracción dental fue el tratamiento electivo en el presente caso. No se presentaron complicaciones locales ni



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generales. El tratamiento de los dientes natales debe ser personalizado, así como valorarse las variables de cada caso.

PALABRAS CLAVE: Dientes natales; dientes neonatales; dientes supernumerarios.

INTRODUCTION

Odontogenesis is the process leading to the formation of teeth in both dental arches. involving the sequential appearance of two classes of teeth: primary and permanent teeth. It is a complex process involving the ectodermal epithelium, which forms enamel, and the ectomesenchyme, which forms dentin, pulp, cementum, periodontal ligament, and alveolar bone. In odontogenesis, the inductive trigger role is played by the ectomesenchyme or cephalic mesenchyme. The process of odontogenesis consists of two phases: morphogenesis or morphodifferentiation and histogenesis or cytodifferentiation (1-3). Dental eruption is a physiological process associated with growth, where the tooth moves from its original position in the jaw to its final position in the oral

cavity (4). The normal eruption period of primary teeth begins around six months of age with the lower central incisors and ends around 24 months with the upper second molars. This process brings about various functional changes in a child's life and emotional experiences for parents. Expectations regarding the eruption of the first teeth are significant, but they can be even greater when teeth appear early in the oral cavity (5).

Teeth that appear prematurely, either at birth or after birth, are called natal or neonatal teeth. Natal teeth are those that erupt at birth, while neonatal teeth are dental organs that erupt within 30 days after birth. They are classified based on the degree of maturation or appearance (6). The worldwide prevalence of natal teeth is 34.55 (95% CI, 20.12 to 59.26)



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10,000. Subgroup analysis per by continent showed that the prevalence of natal teeth ranged from 11.26 (95% CI, 7.58 to 16.61) per 10,000 in Asia through 75.32 (95% CI, 51.11 to 99.86) per 10,000 in North America (7). In 90% of cases, they are primary teeth, while in 10% of cases, they are supernumerary teeth. Regarding their location, 85% are mandibular central incisors, 11% are maxillary incisors, 3% are mandibular canines and molars, and 1% are maxillary canines and molars (1,6,8,9). Their occurrence is usually bilateral, with women presenting them more frequently. Although their etiology is unknown, various factors such as hypovitaminosis, hormonal stimulation, multiple steatoma, trauma, superficial positioning of dental germs, osteoblastic activity in a dental germ area, febrile states, or environmental factors may be involved (10). However, no conclusive relationships have been proven. The most acceptable theory is that the dental germ is located superficially. Although, Stamfelj et al. suggest that the presence of natal teeth in

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individuals with agenesis of primary successors is linked to faster or premature dental development rather than the superficial location of tooth germs (6). Histologically, most natal and neonatal teeth may follow a normal mineralization pattern but also present alterations in both enamel and dentin. Other findings include the absence of the Weil basal layer, Hertwig's sheath, and cementum, as well as an increase in the number of dilated blood vessels in the pulp (1,6,10).

Clinically, they appear as normal primary teeth, but are usually smaller and sometimes conical. They typically exhibit hypermobility due to their mucosasupported nature caused by the lack of root formation and may have enamel alterations, they may have an immature appearance with irregular and sharpedged hypoplastic enamel, often with a brownish-yellow/whitish opaque coloration (11). Importantly, radiographic findings often show an absence of the root. Treatment should be tailored to each tooth and each child. Available treatments



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include extraction or maintenance of the tooth in the dental arch. The most common complication of natal or neonatal teeth is traumatic ulceration of the ventral part of the tongue due to friction, known as Riga-Fede ulcer. There are no reports of bronchoaspiration. The treatment of natal and neonatal teeth should be carefully assessed, considering their mobility, administration of vitamin K, integrity, feeding commitment, and the presence of any ulcer (11,12). The aim of this study was to report a clinical case of five natal teeth in a single patient.

Clinical Case Presentation

This case involves a 3-day-old male patient who was brought by his father to the Pediatric Dentistry service at the Craniofacial Clinic of the DIF Hidalgo Children's Hospital, who reported the following: "My son was born with molars and teeth, I feel that they hurt when he eats, and I am afraid he might swallow them since they move a lot" (*sic*).

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Informed consent was obtained, as well as the patient's medical history, which is on file at the DIF Children's Hospital, where the following information was observed: without pathological antecedents, the patient has received complete immunization according to his age, as well as the administration of vitamin K at birth. The hereditary family history was as follows: the patient's father and paternal grandfather were born with natal teeth, but the father does not remember which ones or their location. which were removed in the months following birth in both cases. No current pathological antecedents were reported.

Diagnosis

Upon extraoral physical examination, it was observed that the child had adequate skin coloration and hydration, and was responsive to external stimuli. Upon intraoral examination (Figure 1), the presence of 5 dental organs was observed, which were diagnosed as natal teeth, consisting of: 1 upper right molar, 1 upper left molar, 1 lower right molar, 1



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lower left molar, and 1 lower central incisor. These teeth were observed with hypermobility, mucosa-supported, and generalized hypoplasia. The labial and lingual frenulum were adequately inserted, and the tongue showed no lesions (Riga Fede). The cheeks and buccal mucosa were appropriately colored and hydrated. It was not reported that the presence of natal teeth interfered with breastfeeding.



Figure 1. Intraoral photographs showing 1 upper right molar, 1 upper left molar, 1 lower right molar, 1 lower left molar, and 1 lower central incisor.

Treatment

The treatment of choice was the extraction of the five dental organs, which were scheduled to be performed in two sessions, as the father, despite being explained that the procedure would not be complex and the risk of bronchoaspiration was high, did not agree to have it done in a single session.

On the same day, the extraction of the lower natal molars and lower central incisor was performed; for this procedure, 2% lidocaine (Uniseal, Mexico) was infiltrated with peripheral points in the lower molars, and topical anesthetic (Helyicaine, Mexico) was applied under relative isolation to the mucosa



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corresponding to the lower central incisor natal tooth. (Figure 2) Following this, the lower molars and central incisor were extracted using Kelly forceps without any complications. Digital pressure was applied to achieve adequate hemostasis. The father was asked to start feeding to alleviate the patient's stress.



Figure 2. Photographs of infiltration of 2% lidocaine, application of local anesthetic, and extraction of the lower right molar.

At the second appointment, the patient was asked to fast for 2 hours. Under relative isolation, topical anesthetic was applied to the mucosa corresponding to the upper molars, and they were extracted using Kelly forceps without complications. Hemostasis was immediately achieved without the need for digital pressure. The father was asked to monitor for any eventualities. After the extractions, it was confirmed that the teeth did not have root formation and all presented hypoplasia (Figure 3). The father was instructed to return for a follow-up in 15 days, but did not attend further appointments.



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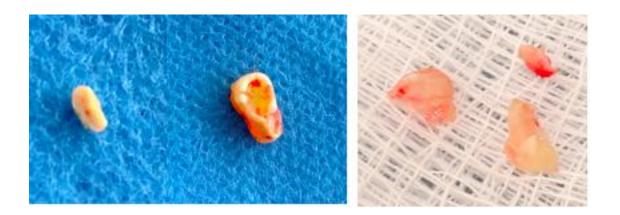


Figure 3. View of natal teeth. Root formation is absent

Discussion

Natal teeth are uncommon, and the presentation of multiple natal teeth is even rarer. Natal teeth are those present in babies at birth, as in the case of this report. The presence of these teeth causes confusion parents among and pediatricians, and they should be attended by pediatric dentists for proper to diagnosis and treatment. The most frequently reported recommendation in the literature is the extraction of natal and teeth, citing the risk of neonatal

bronchoaspiration if the tooth is avulsed. spontaneously However, а literature review did not find any reports of this complication occurring (13). Nonetheless, extraction helps prevent this risk and potential major any complications.

Deciding on the treatment requires considering specific criteria (Table 1), as well as imaging tests to determine whether the teeth belong to deciduous dentition or are supernumerary teeth.



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	Table 1. Criteria to	consider for treatment	selection in natal	and neonatal teeth
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Criterion	Decision
Patient's age	The patient's age should be considered
	before making a treatment decision, as
	babies under 14 days old cannot synthesize
	vitamin K and are at risk of bleeding.
Dental Hypermobility	Natal and neonatal teeth lack root
	formation, making support difficult and
	resulting in potential spontaneous avulsions
	that could lead to bronchoaspiration.
Administration of Vitamin K at Birth	The absence of vitamin K in the body leads
	to inadequate coagulation, causing
	uncontrolled bleeding. It is important to
	verify the administration of vitamin K at
	birth before deciding to extract any natal or
	neonatal teeth.
Belonging to Deciduous Dentition	If the natal or neonatal tooth belongs to
	deciduous dentition, it is important to
	preserve it in the oral cavity.
Belonging to Supernumerary Teeth	If the natal or neonatal tooth belongs to a
	supernumerary tooth, it is essential to
	remove it to allow the deciduous tooth to
	erupt properly.
Presence of Tongue Lesions (Riga-Fede)	Lesions on the tongue or mother's nipple
	will limit feeding and, therefore, the
	newborn's growth and development.

The treatment of choice in the present case was the extraction of the five natal teeth, based on the clinical characteristics of the teeth (primarily mobility) and the discomfort experienced during breastfeeding. Therefore, the decision to extract was made to prevent potential spontaneous exfoliation. While bronchoaspiration has not been reported in scientific literature, it remains a concern for both the dentist and parents, making tooth extraction a more beneficial option compared to the risk of spontaneous exfoliation.



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Conclusion

Dental extraction was the elective treatment in the present case, with no local or general complications reported. Natal and neonatal teeth are uncommon, and the presentation of multiple teeth in the same patient is even rarer. The treatment of natal teeth should be personalized, taking into account variables such as the patient's age, dental hypermobility, administration of vitamin K at birth, belonging to deciduous dentition, being supernumerary teeth, presence of nipple lesions in the mother, presence of tongue lesions (Riga-Fede). It is worth noting that there are currently no objective diagnostic criteria to determine the degree of mobility and the short- and long-term prognosis of natal/neonatal teeth. Therefore, studies focused on answering these questions and establishing treatment protocols are recommended.

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