



Talon Cusp associated with Bilateral Supernumerary Teeth

Bilateral Süpernumere Diş İle İlişkili Talon Tüberkülü

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ABSTRACT

Supernumerary teeth are teeth that appear in addition to the normal series. Morphological alteration in supernumerary teeth is quite common. Supernumerary teeth presenting in mandible are very rare and with talon cusp is extremely rare. The present case was reported in a 17 year old male with bilateral supernumerary associated with talons cusp. Talon cusp is an accessory cusp similar to a projection, extending from the cingulum or cement enamel junction to the incisal edge. Management of supernumerary teeth needs to be comprehensive and planned as per individual case. The present case was unique because of its rarity

Key words: Supernumerary teeth, Talon Cusp, Developmental anomalies

ÖZET

Normal seriye ilave olarak ortaya çıkan dişler süpernumere dişlerdir. Süpernumere dişlerde morfolojik değişim oldukça yaygındır. Alt çenede görülen süpernumere dişler oldukça nadir olup talon tüberkülü formunda olanlara ise daha da az rastlanır. Talon tüberkülü bilateral süpernumere dişe sahip 17 yaşında erkek bir vaka sunuldu. Talon tüberkülü; pençe benzeri bir çıkıntı olup, cingulum ya da sement enamel eklemlerden insizör dişlere kadar geniş bir alana dahildir. Süpernumere dişlerin değerlendirilmesinde her vaka için farklı bir yaklaşım ve kapsamlı bir incelemeye ihtiyaç duyulur. Burada sunulan vaka nadir rastlandığından ötürü oldukça özgündür.

Anahtar kelimeler: Ekstra dişler, Talon Cusp (sivri pençe), gelişimsel anomaliler.

INTRODUCTION

Supernumerary teeth are teeth that appear in addition to the normal series and their prevalence range from 0.1 to 3.8% in permanent dentition. Supernumerary teeth may occur unilaterally or bilaterally. Supernumerary teeth presenting in mandible are very rare compared to that of the maxilla¹. Morphological variations in supernumerary teeth are very common however presenting with talons cusp is extremely rare.

CASE REPORT

A 17 year old male reported to a private dental clinic for routine dental check up. On intraoral examination, bilateral supernumerary teeth were observed on the lingual aspect of the mandibular arch. These teeth were not interfering occlusion. Patient was finding some amount of discomfort for tongue movement. On closer examination, supernumerary teeth on the right side showed an enamel projection on the lingual side

(Fig 1 and 2). Patient's medical history was non contributory. A diagnosis of talon cusp associated

with bilateral supernumerary teeth was made. No dental caries were noted at the taloned teeth.



Figure 1. Clinical photograph showing bilateral supernumerary.



Figure 2. Study cast showing bilateral supernumerary teeth with talons cusp.

DISCUSSION

Presence of supernumerary teeth is the most common developmental anomalies of the dentition; however, the presence of supernumerary teeth in mandibular arch is rare. Talon cusp is a developmental anomaly characterized by cusp like projections and is more common in upper anterior regions^{2,3}.

Ectopic eruption of the supernumerary teeth and malocclusion are the most common complications of the supernumerary teeth. Lack of space in the jaw is the main reason for the ectopic eruption for the supernumerary teeth⁴.

Pathogenesis of supernumerary teeth is not yet clear where as various theories have been proposed by many researchers that includes dichotomy of the tooth bud, hyperactivity of the dental lamina and heredity⁵.

The size of the Supernumerary teeth is usually smaller than normal teeth. Conical form of supernumerary teeth is the most common type supplemental and tuberculate types are also seen.

Tuberculate type of supernumerary teeth possesses more than one cusp and is usually

barrel shaped and may be invaginated, however in the present case teeth presented with talon cusp which is extremely rare.

Talon cusp is an accessory cusp similar to a projection, extending from the cingulum or cement enamel junction to the incisal edge. Talon cusp on supernumerary teeth is rare and uncommon⁵. Talon cusp is thought to occur during morphodifferentiation stage as a result of outward folding of inner enamel epithelium and transient focal hyperplasia of mesenchymal dental papilla.

Management of supernumerary teeth needs to be comprehensive and planned as per individual case. The present was unique because of its rarity.

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