



# INTERVENTIONAL MANAGEMENT OF SUPERNUMERARY TEETH: AN ORTHODONTIC AND SURGICAL PERSPECTIVE



**Biljana Evrosimovska<sup>1</sup>, Biljana Džipunova<sup>1</sup>, Arsova Gigovska Ana,**

**Nikolovski Bruno<sup>2</sup>, Stojanova Irena<sup>3</sup>, Stavre Trajculevski<sup>3</sup>**

1. Faculty of dentistry, Ss. Cyril and Methodius University, Skopje

2. Faculty of medical sciences, Goce Delcev University, Stip

3. University dental clinical center St. Pantelejmon, Skopje

**Introduction:** Mesiodens it is an extra tooth that most often appears in the upper jaw between the central incisors. Statistically, it occurs more frequently in males than in females. It is one of the developmental anomalies in childhood that can result in a variety of complications, such as malocclusion, food impaction, poor aesthetics, and sometimes it can even lead to the formation of cystic formations.

**Aim:** To present a case of mesiodens in an 8-year-old male patient and the course of its interdisciplinary oral surgical and orthodontic treatment, with whom we prevent functional and esthetic orthodontic anomalies.

**Case report:** This case study presented an 8-year-old male patient diagnosed with dens supernumeraria 21. At the first examination, the presence of an atypical, microdontic, fully formed and cranially oriented mesiodens, placed in the middle of the alveolar ridge, was confirmed clinically and orthopantomographically. Oral surgical intervention was carried out. After a horizontal incision from the vestibular side, relaxing distal osteotomy was performed to visualize the mesiodens and expose it. Surgical extraction of the mesiodens was done, an in-toto enucleation of the cystic sac was accomplish and the cavity was filled with Gela tamp. A suture was placed. One month after the surgical intervention surgical field with the primary lateral right incisor also extracted, was in perfect condition. It was recommended extended orthodontic observation.

## CLINICAL AND RADIOGRAPHIC EVALUATION



Picture 1. Status intraoralis preoperativa



Picture 2. Rtg Panoramix



Picture 3. CBCT

## SURGICAL TREATMENT



Picture 4, 5. Surgical extraction of the supernumeraria 21 with enucleation of the cystic sacus and application of the gelastip in the cavity



Picture 6. Supernumeraria 21 with cystic sacus



Picture 7. Status postoperative



Picture 8, 9. Situation after one month



**Conclusion:** Timely diagnosis and appropriate approach are essential for avoiding potential complications caused by mesiodens, in order to ensure a beautiful smile for a happy and carefree childhood and the development of a mentally and physically healthy individual.