

BILATERAL MANDIBULAR CORONOID HYPERPLASIA:

A CASE REPORT

Dvoranová B¹, Vavro M¹, Hirjak D¹

¹Department of Oral and Maxillofacial Surgery, Comenius University, University Hospital Ružinov, Bratislava, Slovakia

Introduction: **Enlargement** mandibular coronoid process results in painless mechanical restriction mouth opening. This rare condition is often overlooked, patients are treated for temporomandibular dysfunction. For further examination, OPG and CT are recommended.

Bilateral coronoid elongation was reported in over 80 cases. Hyperplasia may occur due to trauma or functional alteration. In most cases the patients male, with first symptoms occurring at the onset of puberty. Main clinical symptom is painless progressive restriction of mouth opening, lateral excursive movement remains free. Recommended treatment bilateral surgical resection of the coronoid processes via intraoral approach.

Case report: 18-year-old patient was referred to the Department of Oral and Maxillofacial Surgery by the general dentist with TMJ dysfunction lasting 26 months.

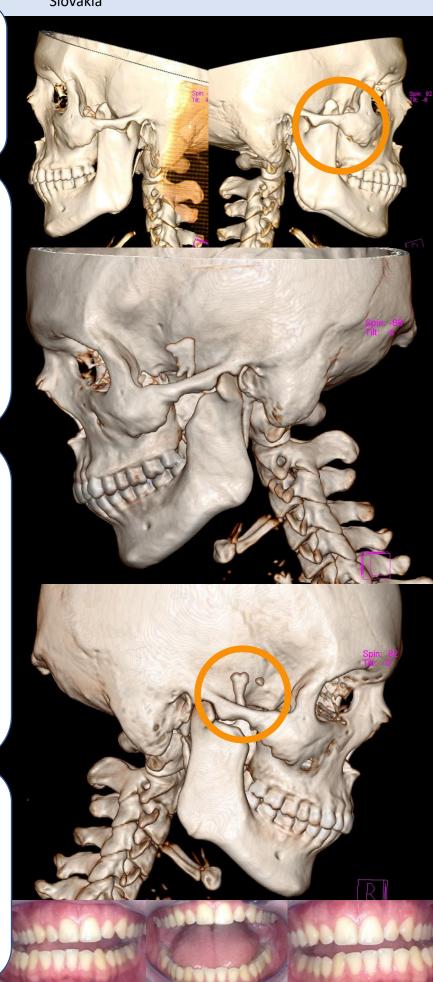
- Maximum mouth opening (MMO) 8 mm
- Lateral excursive movement normal - 8 mm
- **Protrusion disabled**
- No pain, clicking of the TMJ or mandibular trauma to temporomandibular joint region
- CT showed considerably elongated coronoid processes on both sides
- No evidence of condylar pathology

Bilateral coronoidectomy via intraoral approach in general anaesthesia

MMO 28 mm immediately after surgery

2 months after surgery - muscular pain, MMO 30mm

3 months after surgery - pain free, MMO 40mm



Conclusion: In the check-up CT scan performed 12 months after surgery, osseous foci appeared in the location of coronoid process/temporal muscle bilaterally. The patient still shows no signs of clinical symptoms, mouth opening is stable at 40 mm. He stays in careful dispensarization.

The authors certify that they have NO affiliations with or involvement in any organization or entity with any financial or non-financial interest.

Literature: 1, CISNEROS, Alvaro Villegas; VILLASANA, Ernesto Miranda; IBÁÑEZ, 3, SLEEMAN, Duncan; WARREN, Emma; MCAULIFFE, Micheal. Unilateral coronoid Eduardo Varela. Bilateral hyperplasia of the coronoid process. Clinical case report hyperplasia associated with early childhood facial trauma: a case presentation. J Ir with unusual presentation and literary review. Journal of Oral Research, 2018, 7.9: Dent Assoc, 2012, 58.4: 212-214. 373-377.

2, ROMANO, M., et al. Bilateral coronoid hyperplasia: a report of six cases. J Biol Regul Homeost Agents, 2017, 31.2 Suppl 1: 139-45.

4, TAVASSOL, F., et al. Elongated coronoid process: CT-based quantitative analysis of the coronoid process and review of literature. International journal of oral and maxillofacial surgery, 2012, 41.3: 331-338