

## **Abstract**

### **POST-SURGICAL ORTHODONTIC MISTAKES**

Vaiva Jakštienė

SOS Clinic, Vilnius, Lithuania

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#### **Introduction:**

Orthognathic surgery combined with orthodontic treatment is a complex, multidisciplinary, long-term process that significantly impacts patients' appearance. Errors can occur at various stages, particularly just before and immediately after surgery. Recognising and managing these mistakes is crucial for successful outcomes.

#### **Methods:**

Two patients with skeletal Class II deformity were treated using a combined orthodontic - orthognathic surgical plan by different orthodontists, under the supervision of the same surgeon. Both patients experienced post-surgical orthodontic mistakes.

#### **Results:**

Mistakes occurred in the post-surgical orthodontic phase. It included proclination of the lower anterior teeth, leading to premature contacts in the front and mandibular sliding. Consequently, TMJ symptoms were observed. These issues were being resolved in the post-surgical phase through different approaches: one patient underwent interproximal reduction (IPR) of the lower anterior teeth and retrusion of it, while another underwent distalization of all lower teeth using bollard mini plates. Despite various orthodontic challenges, both patients became TMJ symptom-free at the end of treatment and during the retention phase.

#### **Conclusions:**

Mistakes are an inherent part of daily clinical practice and serve as valuable learning opportunities. Close monitoring and immediate intervention upon detection of deviations from the treatment plan are essential for successful management.