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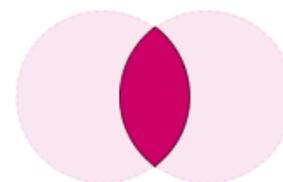
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AND

Literatura **AND** Saramago

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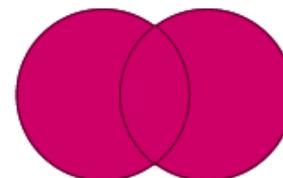
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NOT

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Facemask performance during maxillary protraction: a finite element analysis (FEA) evaluation of load and stress distribution on Delaire facemask (Article) [\(Open Access\)](#)

Gazzani, F.^a [✉](#), Pavoni, C.^{a,b} [✉](#), Giancotti, A.^a [✉](#), Cozza, P.^{a,b} [✉](#), Lione, R.^{a,b} [✉](#) [👤](#)

^aDepartment of Clinical Sciences and Translational Medicine, University of Rome 'Tor Vergata', Via Collazia 29, Rome, 00183, Italy
^bDepartment of Dentistry, UNSBC, Tirana, Italy

Abstract

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Background: To evaluate load and stress distribution on Delaire facemask (FM) during maxillary protraction in class III growing patients by means of finite element analysis (FEA). A three-dimensional geometry of a Delaire FM was reconstructed from the original CAD 3D prototype, using software package (ANSYS 5.7). FM presented forehead and chin supports and stainless steel framework characterized by two lateral vertical bars connected to a crossbar with two pawls for elastic attachment. Two traction intensities (7.8 and 9.8 N) were applied on the FM pawls along three different downward inclined directions with respect to the **occlusal plane** (0°, 30°, or 50°, respectively). Resulting stresses and deformations were then tested through the von Mises yield criterion in order to underline the FM wear performance. Results: The analysis showed that higher stresses and deformations are mostly related to axial forces of 9.8 N rather than 7.8 N. Stresses also progressively increased with increasing downward force inclinations (0°, 30°, and 50° with respect to the **occlusal plane**). The overall tensions were inferior to the limit of the elastic behavior (yield point) characterizing the material they are applied on. Thus, the FM structure absorbed the load applied with an elastic deformation of the lateral and horizontal bars. Conclusions: Resulting stresses and deformations were directly proportional to protraction load amounts and to increasing downward inclination of forces. In all tested conditions, protraction

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IN: [Journal of Oral and Maxillofacial Surgery](#), September 2018, Vol.76(9), pp.1983-1990 [Periódico avaliado por pares]

PurposeTo evaluate the long-term postsurgical stability of counterclockwise rotation of the occlusal plane (OP) in double-jaw orthognathic surgery in patients with hyperdivergent Class III malocclusion. Materials and MethodsThis retrospective cohort study evaluated the postsurgical stability of orthognathic surgery in patients with skeletal Class III malocclusion and

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Journal of Oral and Maxillofacial Surgery, Volume 76, Issue 9, September 2018, Pages 1983-1990

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Is Counterclockwise Rotation With Double Jaw Orthognathic Surgery Stable in the Long-Term in Hyperdivergent Class III Patients?



Yüsemir Babar Acar, DDS, PbD,* Necip Fazıl Erdem, DDS, PbD,†
Abmet Hüseyin Acar, DDS, PbD,‡ Ahmet Nejat Erverdi, DDS, PbD,§ and
Kemal Ugurlu, MD||

Purpose: To evaluate the long-term postsurgical stability of counterclockwise rotation of the occlusal plane (OP) in double-jaw orthognathic surgery in patients with hyperdivergent Class III malocclusion.

Materials and Methods: This retrospective cohort study evaluated the postsurgical stability of orthognathic surgery in patients with skeletal Class III malocclusion and counterclockwise rotation of the maxillomandibular complex with an OP change of at least -2° . Patients were evaluated with lateral cephalometric analysis before surgery, immediately after surgery, and at longest follow-up. The primary predictor variable was the change in angle of the OP and the Frankfort horizontal (FH) after surgery. The primary outcome variable was stability of the OP at longest follow-up. Other study variables were age, gender, and the following cephalometric measurements: mandibular plane angle; gonial angle; angle formed by the sella, nasion, and B point; maxillary height; angle of the palatal plane to the line connecting the sella and nasion; and distances of the posterior nasal spine and A point to the FH and of the A point to the vertical line passing from the nasion. The Mann-Whitney *U* test was used to compare stability between groups because the variables were not normally distributed. Bonferroni correction was used to evaluate *P* values. The χ^2 test and Fisher exact test, where appropriate, were used to compare the proportions of groups. A *P* value less than .05 was accepted as statistically significant.

Results: The sample was composed of 15 adult patients (mean age at surgery, 23.5 yr; 40% men). The median duration of follow-up was 48 months (interquartile range, 36 to 60 months). The groups had similar demographic properties and similar surgical changes. Ten patients showed very stable results with an OP-FH change no greater than 1° . Four patients showed unstable results with an OP-FH change of $2.25 \pm 0.5^\circ$ during the follow-up period. The change in the mandibular plane angle was notable between patients with stability and those with instability, which was the variable most affected by relapse of the OP.

Conclusion: This study found long-term postsurgical skeletal stability of counterclockwise rotation of the OP during double-jaw orthognathic surgery in patients with high angle Class III malocclusion after a median follow-up of 48 months.

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J Oral Maxillofac Surg 76:1983-1990, 2018

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