

26<sup>th</sup> Euro Congress and Expo on

# Dental & Oral Health

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## Oral health related quality of life, psychosocial effects and self-esteem among patients receiving orthodontic treatment, comparison between labial and 2D-lingual fixed orthodontic appliances: Case Report

Karpitsaris Nikolaos

Marmara University of Istanbul, Turkey

**Statement of the Problem:** In recent years, the percentage of adult orthodontic patients has arisen. Adult patients prefer lingual braces more than the labial ones due to esthetic reasons. Lingual appliances can be comparable with labial appliances.

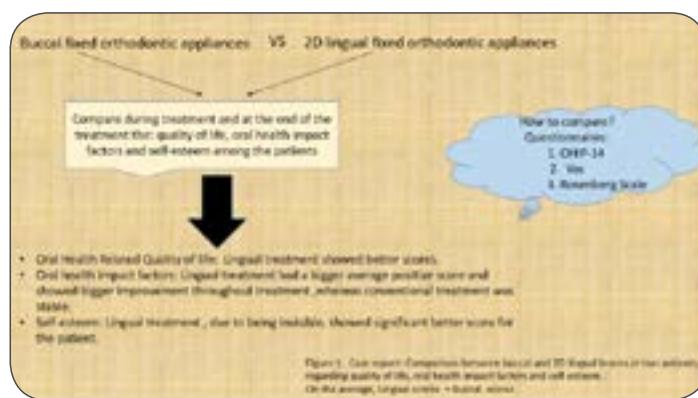
**Aim:** Among patients receiving lingual and labial orthodontic treatment, we aim to investigate the: changes related to "oral health related quality of life", changes related to "self-esteem" and oral impacts during treatment.

**Case:** A pair of female adults (twins) were referred to our clinic with same chief complaints of minor crowding and unesthetic smile. They had no medical history. Examination revealed skeletal Class I relationship, normal profile and minor crowding in both arches. One of them underwent orthodontic treatment with buccal fixed orthodontic appliances. The other had orthodontic treatment with 2D lingual fixed orthodontic appliances.

**Materials and Methods:** Our case is based on questionnaires being delivered to the patient at every appointment. Three proven and valid questionnaires were delivered: Ohip-14, Rosenberg Self-Esteem Scale, VAS. Their answers were used to quantify the differences between the two different treatment modalities throughout treatment.

**Result:** Esthetically pleasing and ideal dental and skeletal occlusion was achieved in both cases. The patient with the lingual treatment showed better response regarding his quality of life and psychology.

**Conclusion:** This case shows a successful orthodontic treatment plan in both methods, with the lingual treatment playing a truly important role in the patient's everyday life and psychology.



### Recent Publications

1. Jung MH. An evaluation of self-esteem and quality of life in orthodontic patients: effects of crowding and protrusion. Angle Orthod. 2015; 85:812–819.
2. Pithon MM, Nascimento CC, Barbosa GC, Coqueiro Rda S. Do dental esthetics have any influence on finding a job? Am J Orthod Dentofacial Orthop. 2014; 146:423–429.

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3. Silvola AS, Varimo M, Tolvanen M, Rusanen J, Lahti S, Pirttiniemi P. Dental esthetics and quality of life in adults with severe malocclusion before and after treatment. *Angle Orthod.* 2014; 84:594–599.
4. Dimberg L, Arnrup K, Bondemark L. The impact of malocclusion on the quality of life among children and adolescents: a systematic review of quantitative studies. *Eur J Orthod.* 2015; 37:238–247.
5. Gazit-Rappaport T, Haisraeli-Shalish M, Gazit E. Psychosocial reward of orthodontic treatment in adult patients. *Eur J Orthod.* 2010; 32:441–446.

## **Biography**

Karpitsaris Nikolaos is a postgraduate student, currently final year resident at the department of Orthodontics, Marmara University of Istanbul. He graduated from Aristotle university of Thessaloniki and worked in dental clinics in Greece and Germany as a general dentist before choosing the path of Orthodontics. He believes that a perfect smile is the prettiest thing you can wear. His main interests include lingual orthodontics, orthognathic surgeries and modern treatment modalities.

nikoskarpi@gmail.com

## **Notes:**