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Eye tracker device in Orthodontics

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Aesthetics is an important source of motivation for patients to want orthodontic treatment. Aesthetic perception of orthodontists; while the reference lines are based on norm values, ratios and angles, the aesthetic perception of the patients is related to more subjective criteria. Detection of these perception differences; It has an important role in evaluating the expectation of the patient from the treatment, the need for treatment, the result of the treatment and the psychology of the patient. Methodology & Theoretical Orientation: Eye tracker devices have emerged as valuable tools in the field of orthodontics, revolutionizing treatment planning, design, and patient engagement. By leveraging the data obtained through these devices, orthodontists can enhance treatment outcomes and deliver personalized care that aligns with patient. As the field of orthodontics continues to embrace technological advancements, eye tracker devices offer a promising methodology for optimizing orthodontic treatment and improving patient satisfaction. Findings: The use of eye tracker devices in orthodontics has generated valuable research insights. Eye tracking studies have explored various aspects of orthodontic treatment, such as smile attractiveness, midline position, and buccal corridors, providing evidence-based knowledge to guide treatment planning and aesthetics. Conclusion & Significance: The utilization of eye tracker devices in orthodontics has led to improved treatment planning. By analyzing the visual attention and gaze patterns of patients, orthodontists can better understand how individuals perceive treatment-related materials and optimize treatment options based on patients' individual visual preferences and perceptions. Eye tracker devices have facilitated a more personalized and patient-centered approach to orthodontic treatment. By integrating eye tracker data with digital imaging and orthodontic software, clinicians can tailor treatment plans to align with patients' visual preferences, resulting in improved patient satisfaction and treatment adherence.

Recent Publications

1. Camcı H (2007) Eye tracking System and orthodontics review. *Türkiye Klinikleri J Dental Sci* 23(3):184-90.
2. Hwang HS, Lim SH, Lee YK, Kim HS, Kim YJ (2019) Visual attention analysis of patients with malocclusion during orthodontic consultation using eye-tracking technology. *Journal of Dentistry* 80:42-48.
3. Baumgartner S, Schmid C, Kluckner L (2014) Eye-tracking technology: A new tool for the assessment of orthodontic treatment need and outcome. *Journal of Orofacial Orthopedics/Fortschritte der Kieferorthopädie* 75(4):328-338.

Biography

Özge SÖZEN was born in 1993 in Balıkesir. She graduated from Vefa High School in 2011 and then completed her graduate education at Marmara University Faculty of Dentistry in 2016. She started PhD education in İzmir Katip Çelebi University Health Sciences Institute Orthodontic Program in 2020.

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