

International Conference-2024

14th – 15th November 2024

Aesthetic and Functional Improvement Approaches to Smile Design with Orthodontic Treatment

Damla Çardak

DDS, PhD Student at Department of Orthodontics, Izmir Kâtip Çelebi University, Izmir, Turkey

Zeynep Koyu

DDS, PhD Student at Department of Orthodontics, Izmir Kâtip Çelebi University, Izmir, Turkey

Beyza Karadede Ünal

DDS, PhD of Orthodontics, PhD of Histology and Embriology, Associate Professor at Department of Orthodontics, Izmir Kâtip Çelebi University, Izmir, Turkey

Mehmet Irfan Karadede*

DDS, PhD of Orthodontics, PhD of Histology and Embriology, Professor at Department of Orthodontics, Izmir Kâtip Çelebi University, Izmir, Turkey

Abstract:

Smile design is a critical aspect of orthodontic treatment, as it addresses both the aesthetic and functional elements of a patient's smile. Orthodontic approaches to smile design focus on achieving optimal alignment, balance and symmetry, while also ensuring that the teeth and jaws function effectively. An ideal smile requires the coordination of many factors, such as the harmonisation of the curvature of the upper lip with the gingival margins, minimal buccal corridors, a properly positioned upper lip line and a symmetrical smile. The curvature of the smile should be harmonious, following the curvature of the lower lip, and the absence of occlusal cant is essential for both aesthetic and functional balance. In orthodontic treatment, smile design is not limited to aesthetics, but also addresses functional needs, especially in cases involving malocclusions such as deepbite and openbite. These conditions require a combination of orthodontic and in some cases, prosthetic applications to correct missing teeth or dental anomalies. In the initial phase of treatment, digital imaging, such as intraoral scanning and cephalometric analysis, plays a critical role in ensuring accurate diagnosis and treatment planning. These tools allow the development of a comprehensive approach that achieves both optimal aesthetic results and proper occlusal function, ensuring long-term success for the patient.

Keywords:

Smiling, Aesthetics, Cosmetic dentistry, Orthodontics.