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Class II non-extraction treatment with intermaxillary elastics using aligners versus standard multi-brackets appliances: A comparative study

Araxi Balian, Laura Strohmenger and Angela Malerba
University of Milan, Italy

Class II malocclusion is a major and common challenge clinicians face in daily practice, as it affects more than one third of adolescents seeking orthodontic treatment. Most of Class II malocclusion presents a normal or at least a slightly altered skeletal pattern with mild-to-moderate anteroposterior occlusal discrepancy, which can be successfully treated with non-extraction orthodontics supported by intermaxillary elastics. It is claimed that Invisalign aligners (Align Technology, Inc., San José, CA, USA) can effectively correct Class II malocclusion when the total amount of anteroposterior discrepancy is within 4-5mm. Even though Invisalign has become a popular treatment choice for clinicians because of the aesthetics and comfort of the removable clear aligners (RCA), there is a general lack of research. Moreover, the majority of research have investigated the feasibility of Invisalign in producing single specific movements rather than evaluate the overall outcome of the treatment of a given malocclusion. The purpose of the present study was to evaluate the Class II non-extraction treatment outcomes of Invisalign supported by intermaxillary elastics and to compare with those observed in a control group treated with standard multi-brackets appliances. Statistical comparison has been carried out to assess post-treatment outcomes of the two groups, as well as to determine differences regarding patients' complaints and compliance during orthodontic therapy.

Biography

Balian achieved her Dental Degree (DDS) at the University of Padua, Italy in 2011. She has completed a 3-yr Orthodontics residency program at the Dental Clinic of San Paolo Hospital, University of Milan, Italy and she was awarded the MS degree in Orthodontics in 2015. Dr. Balian is currently Consultant in Pediatric Dentistry and Orthodontics at the Dental Clinic of ASST Santi Paolo e Carlo Hospital, University of Milan and Clinical Instructor at the Master of Interceptive Orthodontics, University of Padua. She is author of several national and international publications and winner of the 2016 International Align Research Award.

araxibalian@gmail.com

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