



## Dr. Susana Palmer

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### **Biomechanics of Treating Skeletal Class III Malocclusions with Aligners: Strategies and Clinical Considerations**

The orthodontic management of skeletal Class III malocclusions remains one of the greatest clinical challenges due to their complex etiology and the limited response of conventional protocols without surgical intervention. Traditionally, correction of this type of malocclusion has required combined treatment with orthopedic appliances or orthognathic surgery. However, advances in clear aligner therapy offer new biomechanical possibilities to address selected skeletal Class III cases. This presentation will analyze the limitations and potential of aligners in treating Class III patients, with emphasis on the underlying biomechanical principles, the design of attachments, strategies for distalization and dental compensation, and anchorage control. Clinical protocols, case studies, and practical recommendations will be presented to optimize outcomes, highlighting the importance of meticulous digital planning and interdisciplinary collaboration when needed.