

Class II Malocclusion Upper Premolars Extraction Cases

Prof. Jin Young Choi

Since Dr. Angle defined the occlusal relationship where the mesiobuccal cusp of the maxillary first molar aligns with the mesiobuccal groove of the mandibular first molar as Class I occlusion, this relationship has been recognized as ideal and established as the ultimate goal of orthodontic treatment. Achieving a Class I molar occlusion relationship along with proper overjet and overbite of the anterior teeth presupposes that the number of teeth in the maxilla and mandible are equal. However, in some cases of Class II malocclusion, it may be possible to opt for extraction of premolars only in the maxilla without extracting in the mandible, in which case the molar occlusion should be adjusted to a Class II relationship to achieve ideal anterior occlusion.

When deciding on unilateral premolar extraction in the maxilla, it is important to consider factors such as the amount of crowding, the initial molar relationship, and the inclination of the anterior teeth. Careful decision-making is particularly required in borderline cases between unilateral and bilateral extractions. Additionally, during orthodontic treatment following unilateral maxillary premolar extraction, selecting the appropriate anchorage is crucial, and efforts should be made to establish stable molar occlusion while actively managing vertical control.

In this lecture, we aim to explore the factors influencing the decision to extract unilateral maxillary premolars in Class II malocclusion patients during diagnosis and treatment planning. Through case studies, we will discuss considerations and strategies necessary to achieve desired treatment goals throughout the entire treatment process.

Profile

- * Graduated from Wonkwang University, College of Dentistry
- * Master's degree from Ajou University, Graduate School of Clinical Dentistry
- * Resident in the Department of Orthodontics at Ajou University Hospital
- * Ph.D. in Dentistry at Kyung Hee University
- * Fellow and Clinical Assistant Professor in the Department of Orthodontics at Kyung Hee University Dental Hospital
- * Present, Assistant Professor in the Department of Orthodontics at Kyung Hee University, College of Dentistry