

# Enhancing Predictability in Clear Aligner Treatment CAT



Chris H. Chang



In recent years, Clear Aligner Treatment (CAT) has witnessed remarkable growth in both patient acceptance and clinical effectiveness. This expanding landscape has created unprecedented opportunities to address increasingly complex orthodontic cases with CAT. However, in cases involving less predictable tooth movement, the need for supplementary auxiliaries and pre-aligner treatment procedures becomes apparent.

This lecture series is designed to empower clinicians by providing insights into the assessment of whether a pre-aligner phase of orthodontic treatment is necessary. Furthermore, it delves into the strategic design of key mechanics during this phase to streamline and enhance the subsequent aligner treatment process.

## Learning Objectives:

- Clear aligner mechanics for the treatment of each of the orthodontic case types
- Evaluate the necessity of incorporating pre-aligner orthodontic procedures.
- Examine essential components of pre-aligner orthodontic treatment.
- Explore the integration of Temporary Anchorage Devices (TADs) into aligner mechanics to optimize treatment outcomes.

## Chris H. Chang DDS, PhD

Dr. Chris Chang is the founder of Beethoven Orthodontic Center and Newton's A Education Center in Hsinchu, Taiwan. He received his PhD in Bone Physiology and Certificate in Orthodontics from Indiana University. He is a diplomate of the American Board of Orthodontics and an active member of Angle Society-Midwest. Dr. Chang is the editor-in-chief of the Journal of Digital Orthodontics and has authored and co-authored many orthodontic books, including Orthodontics Vols. 1-6, as well as Words of Wisdom. He is also the inventor of OrthoBoneScrews (OBS).

**February 24, 2024 (5:30-7:00 PM Pacific time): Pre-aligner orthodontics (Live web lecture + Q&A)**

### Module 1: Pre-aligner orthodontics

Aligner treatment has seen a tremendous growth in patient acceptance and clinical efficacy in recent years. However, there are still certain limitations on patients' eligibility for aligner treatment. In this presentation, several treatment strategies and orthodontic auxiliaries are proposed, including but not limited to, TADs, segmental braces, minor surgeries and bite plates, that can turn cases from unqualified to qualified and/or drastically reduce treatment complexity.

**March 16, 2024 (5:30-7:00 PM Pacific time): Class II mechanics for aligners (Live web lecture + Q&A)**

### Module 2: Class II mechanics for aligner treatment

A thorough and accurate diagnosis of a Class II malocclusion is essential before discussing the mechanics for aligner treatment. In addition, the mandibular growth potential is key in determining the appropriate Class II mechanics of choice. In this lecture 4 types of Class II mechanics designs, including Class II elastics, IZC screws, mandibular advancement(MA) devices and MA with IZC screws will be presented to help clinicians create a reasonable treatment plan.

**April 20, 2024 (5:30-7:00 PM Pacific time): Class III mechanics for aligners (Live web lecture + Q&A)**

### Module 3: Class III mechanics for aligner treatment

Conservative camouflage Class III treatment is a widely accepted alternative for patients who prefer a non-surgical correction. Extra-alveolar TSADs can provide absolute anchorage during tooth movement, and when combined with aligners, sequential distalization can be utilized to correct Class III malocclusion. Class III elastics and attachments are also important auxiliaries to overcome common side-effects.

**May 11, 2024 (5:30-7:00 PM Pacific time): Aligners & 4 minor surgeries. Part I (Live web lecture + Q&A)**

### Module 4: Aligners and 4 minor surgeries in daily orthodontic practice Part I

**June 22, 2024 (5:30-7:00 PM Pacific time): Aligners & 4 minor surgeries. Part II (Live web lecture + Q&A)**

### Module 5: Aligners and 4 minor surgeries in daily orthodontic practice Part II

Results of aligner treatment can be significantly enhanced when combined with minor chair side surgeries, including gingivectomy (esthetics), crown lengthening procedures(gummy smile correction), open-window technique(palatal impaction), and VISTA(upper labial impaction). These surgical techniques are simple to learn and easy to execute. You can instantly take your aligner results to the next level by mastering these chair side surgeries. This is a topic every aligner practitioner shouldn't miss.

**July 20, 2024 (5:30-7:00 PM Pacific time): Aligner mechanics (Live web lecture + Q&A)**

### Module 6: Aligner mechanics

In addition to precise diagnosis and reasonable treatment planning, mechanic design is the most crucial step in order to execute the plan and achieve excellent clinical results. Three keys in mechanic design include selecting the types of tooth movement, determining their individual sequence and finally controlling their speed during the treatment process, all of which must be well-defined in the digital simulation program prior to the start of treatment. This presentation will guide you to accurately predict and control tooth movement. Mastering these three keys should be and will be the pinnacle of your aligner learning journey.

#### Tuition:

**\$195 per module**

**\$795 for all modules before Dec 31**

**\$995 for all modules after Jan 1**

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