GREATER NEW YORK DENTAL MEETING

95th ANNUAL SESSION

NOVEMBER 29 - DECEMBER 4, 2019

New York University Orthodontic Department and Alumni Symposium

Jae Hyun Park
Welcome to the Greater New York Dental Meeting

COURSE REGISTRATION
Pre-registration is required for all continuing education courses with the exception of the “Live” Dentistry and Affiliated Groups. Your seat will be held for 15 minutes after the start of the course; after that, those without tickets will be seated according to space availability. When the room is filled, no additional people will be admitted due to fire department regulations. If you have not pre-registered, please be prepared to select an alternate session to attend.

Tickets
Tickets are required for all courses excluding Live Dentistry. Tickets for all functions can be purchased at all general registration booths located in the Registration Area on the Upper Level in the Crystal Palace and online.

6 Days of Education Seminars, Hands-on Workshops & Essays
Friday - Wednesday
4 Days of Exhibits
Sunday - Wednesday

FREE “Live” Dentistry
Hi-Tech 450 Seat Arena

SUNDAY
9:45 - 11:45
VOCO America, Inc.
Drs. Ron Kaminer &
Marc Geissberger
Restorative

9:45 - 11:45
Shofu
Dr. Ron Kaminer
Restorative

10:00 - 11:00
First Fit
Drs. Frederick E. Solomon
Cyrus Tahmasebi
Digital

11:00 - 12:00
Millennium
Dr. Sunil D. Thanik
Laser

MONDAY

1:30 - 2:45
Phillips Sonicare
Dr. Gerard Kugel
Whitening

3:00 - 4:15
Align I Invisalign I Itero
Drs. Karla Soto &
Christian Coachman
Restorative

TUESDAY

9:45 - 12:00
Apa / CareCredit
Drs. Michael Apa
Aesthetic

9:45 - 12:00
Gibbons & Main
Drs. Sundeep Rawal
Digital

WEDNESDAY

2:00 - 4:15
Bencox / Vatech
Dr. Aeklavya Panjali
Implant

3D Printing & Digital Dentistry Conference
Dental Laboratory
Technicians Programs
Sleep Apnea Symposium
Oral Cancer Symposium

Celebrity Luncheon Speaker
John Quiñones
Monday, December 2nd
12:00 - 2:00 - Ticket 4010
$125.00

5th Annual Global Orthodontic Conference
3rd Annual Pediatric Dentistry Summit
12th Annual INVISALIGN® - GNYDM EXPO
4 Days of Programming:
Sunday - Wednesday

Botox and Facial Fillers
Seminar & Workshop

Over 1,700 Exhibit Booths
Dr. Jae Hyun Park

Global Orthodontic Conference
Tuesday Morning & Afternoon
All Day Seminars

Key factors in anterior open bite correction

Dec. 03 (Tuesday), All Day Seminars
Title: Key factors in anterior open bite correction

Jae Hyun Park, DMD, MSD, MS, PhD
(JPark@atsu.edu)
Professor and Chair, Postgraduate Orthodontic Program,
Arizona School of Dentistry & Oral Health,
A.T. Still University

Three learning objectives:

- Discuss the etiology of anterior open bite and treatment modalities;
- Evaluate upper airway dimension after anterior open bite correction;
- Discuss which factors affect the success of anterior open bite correction

Anterior open bite is difficult to treat because it results from the interaction of multiple etiologic factors such as heredity, unfavorable mandibular growth patterns, imbalance between the posture of the jaws, nasopharyngeal airway obstruction, digit-sucking habits, and tongue posture and activity. Proper diagnosis and treatment planning, successful treatment, and retention are important to the long-term stability of open bite treatment. In this lecture, the etiology of anterior open bite and various treatment modalities will be discussed along with biomechanics. After the lecture, clinicians will be able to treat and finish anterior open bite cases more efficiently and successfully.
Dr. Jae Hyun Park is Professor and Chair of the Postgraduate Orthodontic Program at the Arizona School of Dentistry & Oral Health. He is a Diplomate of and Examiner for the American Board of Orthodontics. Dr. Park has received several awards for scientific and clinical excellence including the Charley Schultz Award (1st Place Winner in the Scientific Category at the Orthodontic Resident Scholars Program) and the Joseph E. Johnson Award (1st Place Winner at the AAO Table Clinic Competition) from the AAO. He also serves as an editorial board member of several peer-reviewed orthodontic and dental journals including *The Angle Orthodontist*, *Seminar in Orthodontics*, and *Journal of Clinical Orthodontics (JCO)* as well as associate editor of *American Journal of Orthodontics and Dentofacial Orthopedics (AJO-DO)*, *Orthodontics & Craniofacial Research*, *Journal of World Federation of Orthodontists*, and *Journal of Clinical Pediatric Dentistry*. He was recently invited to be a guest editor of *Seminars in Orthodontics*. While working as a full-time faculty member since 2008, he has published more than 210 scientific and clinical articles in peer-reviewed orthodontic and dental journals including 5 cover pages in the *AJO-DO*, 3 cover pages in the *JCO*, 2 books, and 22 book chapters. He lectures nationally and internationally and represented the AAO at the 2018 ADA Annual Session where he presented a 3-hour lecture. In February 2020, Dr. Park's new book, *Temporary Anchorage Devices in Clinical Orthodontics* will be published by the Wiley. Dr. Park is currently Editor-in-Chief of the Journal of the Pacific Coast Society of Orthodontists (PCSO) *Bulletin*, Past President of the Arizona State Orthodontic Association, and Thesis Committee Co-Chair of Northern California Edward H. Angle Society of Orthodontists. He also works for NBDE Part II Ortho-Pediatric Dentistry/ADAT Test Construction Committee and CODA Site Visitor. Recently, he was also appointed to the 2021 Scientific Program Chair at the College of Diplomates of the American Board of Orthodontics (CDABO) annual meeting. In addition, he was recently appointed to replace Dr. Steven Dugoni as the American Board of Orthodontics (ABO) Director representing the PCSO. He will be the ABO President in 2024.
**Etiology & Treatment**

**Skeletal vs Dental Anterior Open Bite**
**Differential Dx**

<table>
<thead>
<tr>
<th></th>
<th>Skeletal</th>
<th>Dental (Habitual)</th>
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<tbody>
<tr>
<td>PFH vs AFH</td>
<td>Decreased PFH</td>
<td>Normal craniofacial pattern</td>
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<tr>
<td></td>
<td>Increased AFH</td>
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<tr>
<td>UAFH vs LAFH</td>
<td>Increased LAFH</td>
<td>Normal craniofacial pattern</td>
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<tr>
<td>SN-GoGn Angle</td>
<td>Steep</td>
<td>Normal</td>
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<tr>
<td>Gonial Angle</td>
<td>Increased</td>
<td>Normal</td>
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<tr>
<td>SN-PP Angle</td>
<td>Decreased</td>
<td>Normal</td>
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<tr>
<td>PP-GoGn Angle</td>
<td>Increased</td>
<td>Normal</td>
</tr>
<tr>
<td>Eruption of Anterior Teeth</td>
<td>Normal to overerupted</td>
<td>Undererupted (Decreased lower COS)</td>
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**Dr. Alexander’s Tongue Exercise**

- **Click:** push tongue against the palate for 10 seconds
- **Slurp**
- **Squeeze**
- **Swallow**
Open Bite Correction Exercises

Congratulations! Your doctor has recommended exercises to help with your orthodontic treatment. Bite exercises have been shown to make your orthodontic treatment more successful and go faster! You have been given a bite stick to help with your exercises. Please follow the directions listed below to achieve your smile!

Transitional dentition (baby and permanent teeth present)
- Bite and clench on bite stick for 5 seconds.
- Rest for 5 seconds.
- Repeat.
- 10 bites and clenches, 5 times a day (total of 50 times)
Elate on the back most _____ teeth on both sides.

Permanent dentition (no baby teeth)
- Bite and clench on the bite stick for 5 seconds.
- Rest for 5 seconds.
- Repeat.
- 30 bites and clenches, 5 times a day (total of 150 times)
Elate on the back most _____ teeth on both sides.

How to clean and care for your bite sticks?
- Daily care: Rinse bite stick after every use and brush it with a toothbrush.
- Weekly disinfection: Soak bite stick in water with denture cleaner or water with mouth rinse for 6-12 mins.

Orthodontic Treatment of Skeletal Class II Adolescent with Anterior Open Bite using Mini-Screws and Modified Palatal Anchorage Plate

Kook YA*, Park JH**, Kim Y***, Ahn CS****, Bayome M*****

This article presents a non-extraction orthodontic treatment case using mini-screws and a modified palatal anchorage plate (MPAP) to intrude the maxillary posterior teeth, and distalize the whole arch dentition and control the extrusion of the maxillary posterior dentition during distalization.

Keywords: Malocclusion, Skeletal Class II, Anterior Open Bite, Modified Palatal Anchorage Plate (MPAP), mini-screws

Anterior retraction with TADs

Airway

Mouth Breather Associated Characteristics

- Deviated or swollen nasal septum
- Atresic palate
- Hypertrophic tonsils
- Lip incompetence
- Dolichofacial pattern
- Excessive overjet
- Anterior open bite
- Mallampati Class III/IV
- Posterior crossbite

*in order of decreasing prevalence
Conclusions

• The application of a MCPP resulted in significant total arch distalization without a significant effect on the transverse dimensions or changes in the oropharynx airway space.

• MCPPs can be considered a viable treatment option for patients with Class II malocclusion.
Conclusions

• Comparing the treatment effects between MCPP appliances and buccal miniscrews, MCPP appliances showed greater distalization and intrusion with less distal tipping of first molars and more extrusion of incisors compared to buccal miniscrews.

Summary

Etiology & Treatment

• Resting tongue position should be considered the main factor leading to anterior open bite.

• Tongue cribs must be worn for at least 6 months or until the patient achieves positive overbite.

• To correct anterior open bite, tongue exercise and masticatory muscle exercise can be used.

Airway

• Oral examination including Mallampati score and tonsillar size should be considered when evaluating a patient for anterior open bite or OSA.

• The application of a modified C-palatal plate resulted in significant total arch distalization without significant effect on the transverse dimensions or changes in the oropharynx airway space.
Orthodontic patients who had extractions do not have greater occurrence of OSA compared to similar patients with non-extraction.

References


