

# Advanced Concept of Orthodontic Anchorage

Anchor plus +



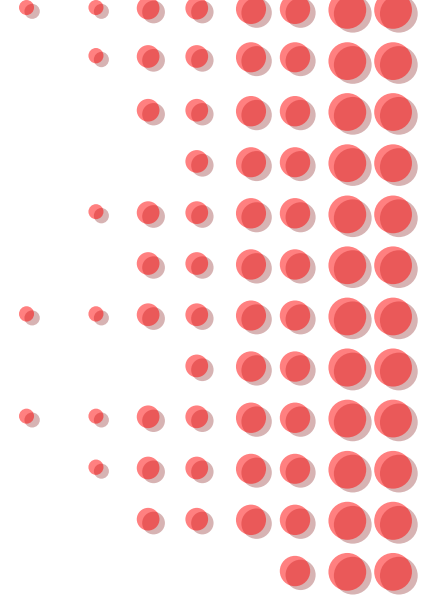


anchorplus

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# *Company Profile*

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## NeoAnchor Plus™

The most sophisticated orthodontic  
mini-screw system ever.



# R&D: Engineering Collaboration

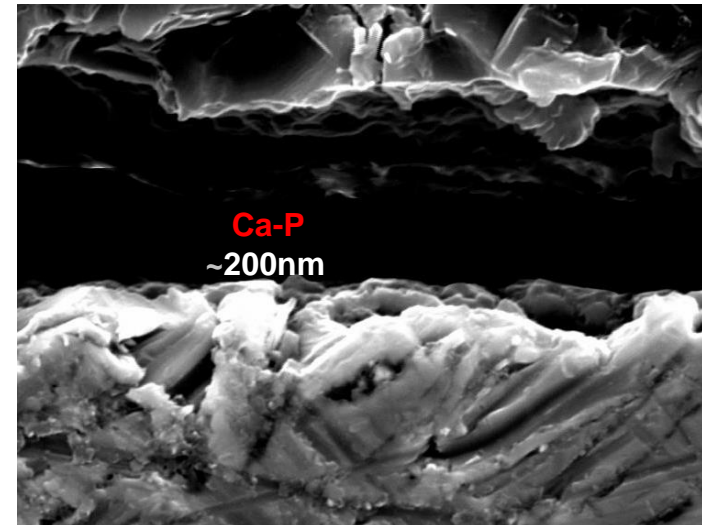
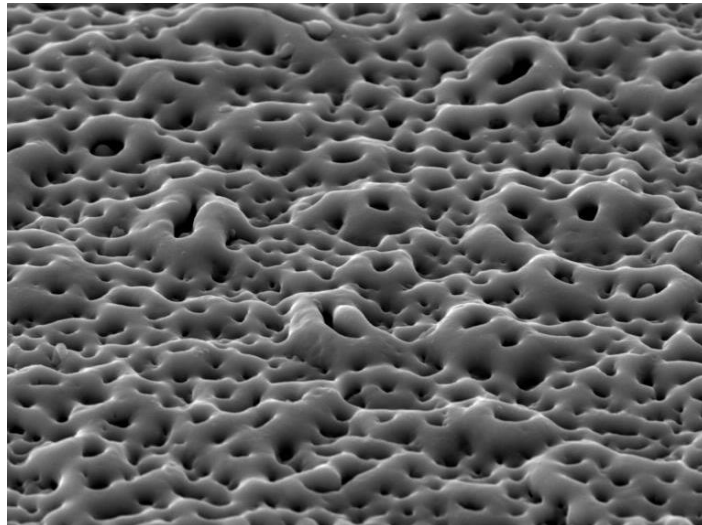


## 문홍범 (Anchorplus) – 고승용 (Dentium)

- Director, R&D Implantium
- Consultant, Anchorplus
- Ca-P Film Coating (HLA Surface Treatment)



Nano-Active Surface  
(Anodizing + Ca-P Film)





# Anchorplus™

## *THE MOST SOPHISTICATED* ORTHODONTIC MINI-SCREW SYSTEM EVER

The FDA approved Class V titanium Anchorplus mini-implant screw, highest surgical quality with triple sterilization, specifically engineered for orthodontic implants.

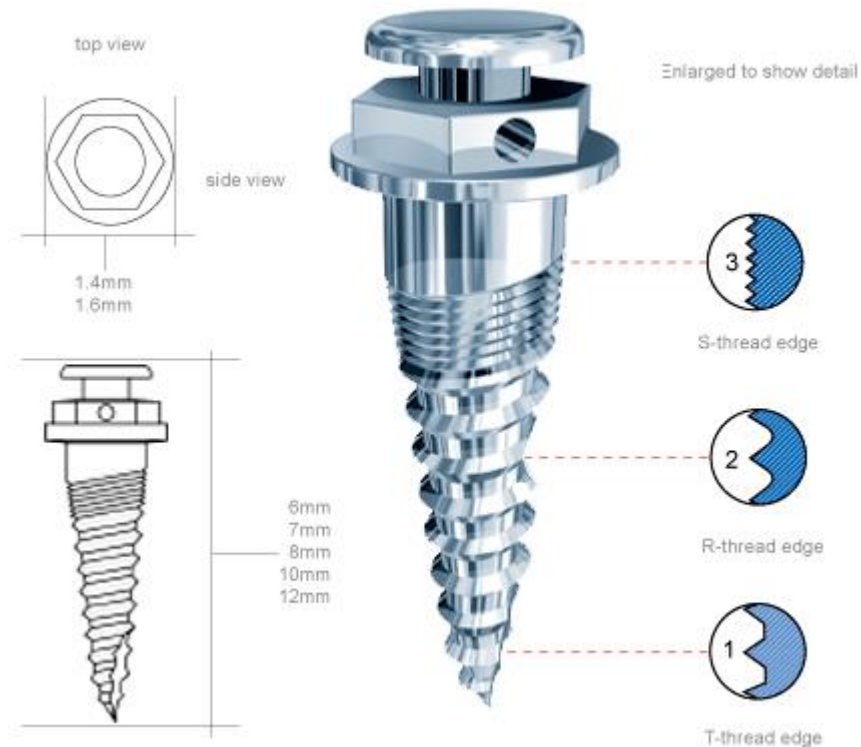
The screws are meticulously designed with 3 different structures:

1. The triangular cutting edge precisely helps self-tapping and smooth insertion to the bone,
2. the round edge ensures better connection for secure placement, and
- 3 the S-thread firmly locks to the bone resulting in a strong fixing force with a wedge effect from initial loading.

This is Anchorplus™ premium mini screw, engineered for your senses as much as it is for the patient's comfort.



# Anchorplus-FDA Approved Unique Design



# Innovative Design & Architecture



Discover the difference of anchorplus...

# PLUS

a plus is a solution,  
a resource,  
an education,  
it simply is more.

Orthodontic mini-implant screw | NeoAnchor Plus™  
Anchorplus ready solution is your biggest advantage. Our in-office seminars, live case demonstrations and on-line support will foster peak performance.

**New Anchorplus Surface Treatment with SLA-4114**  
Enhance bone surface adherence resulting in high stability.

**FDA Approved**

Coating with Large grit Acid-etching + Co-Polymer Coating

- 3-thread edge
- 3-thread edge
- 1-thread edge

For an easier implant and better retention force after the implant, we like to offer you NeoAnchor Plus™ orthodontic mini screw, made of superb quality and versatile system that will surpass your expectations. The innovative triple threads, self-stopping cutting edge tip and tapered structured profile will make your precise implant possible. Further NeoAnchor Plus™ may minimize the treatment period and contribute to outstanding results. It's a system designed around you, not in spite of you. For a better sense of this remarkable screw, visit us at [www.anchorpluscrew.com](http://www.anchorpluscrew.com) or for more information call 1.888.365.8581

Application of screw   Retraction of anterior teeth   Retraction of lower posterior   Inclusion of posterior teeth

Anchorplus Orthodontic mini-implant screw  
3580 Wilshire Blvd. Ste. 101 Los Angeles, California 90010  
T 213 365 8561 F 213 365 2822 [www.anchorpluscrew.com](http://www.anchorpluscrew.com)

Dr. Hong Beom Moon, D.D.S., M.S., FRCG,  
Orthodontic, American Board of Orthodontics,  
Adjunct Professor, UCLA School of Dentistry  
Research Assistant, USC School of Dentistry  
President, AJOCC  
Orthodontic Forum

*Structural Differences*

*Patent Pending Design !!*

기존 타사 미니스크류와  
완전히 다른 Tapered  
3 Unique Parts 디자인

# Product (Mini-Implant Screw) Applications



# Space Closure (buccal)

**Before**



**Progress**





# Space Closure (occlusal)

**before**



**progress**



# A-P Correction (Class III)

with Anchorplus Orthodontic Mini-Implant Screws

**Initial**



**Final**



**Progress**



# A-P Correction (Class III)

with Anchorplus Orthodontic Mini-Implant Screws

**Initial**



**Progress**



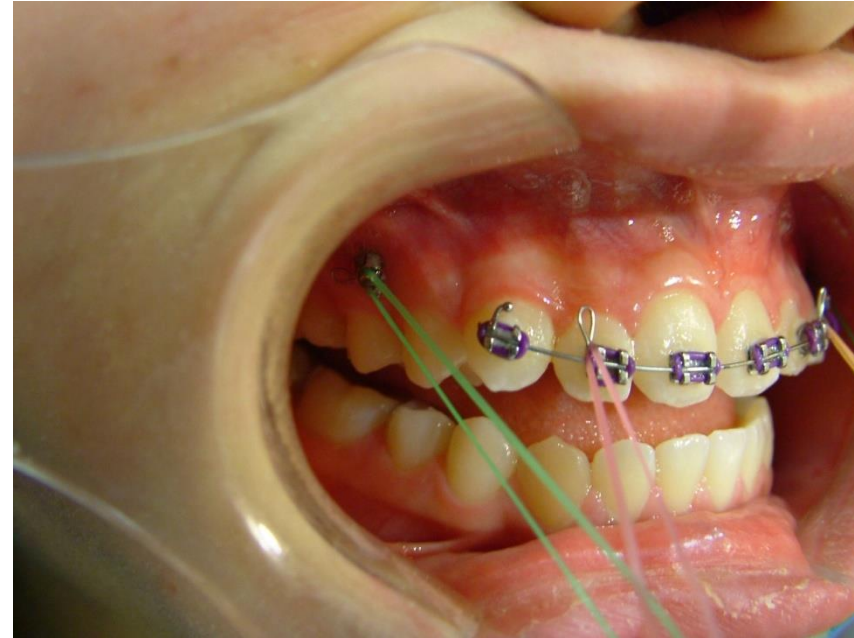
# Early Correction of Class III

with Facemask and Anchorplus Orthodontic Mini-Implant Screws

**Initial**



**Progress**

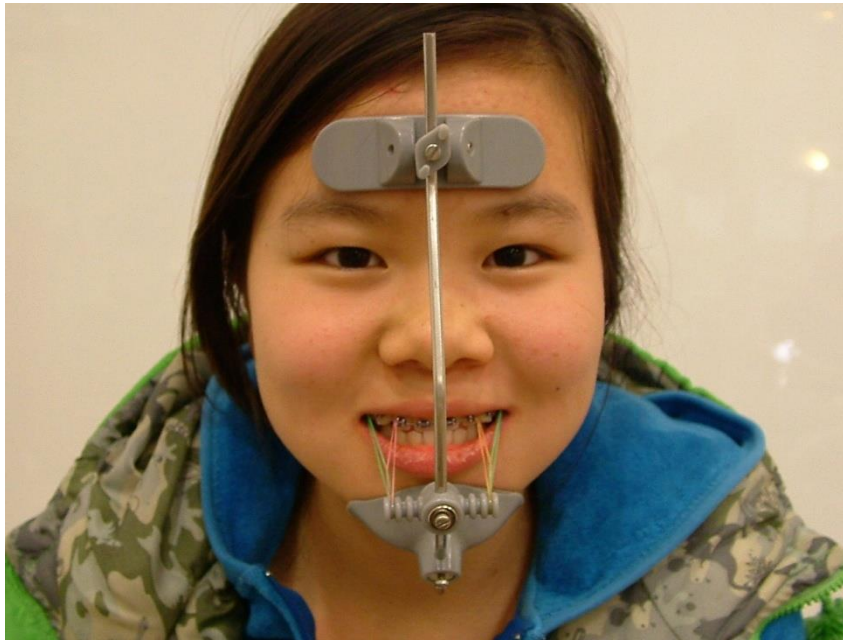




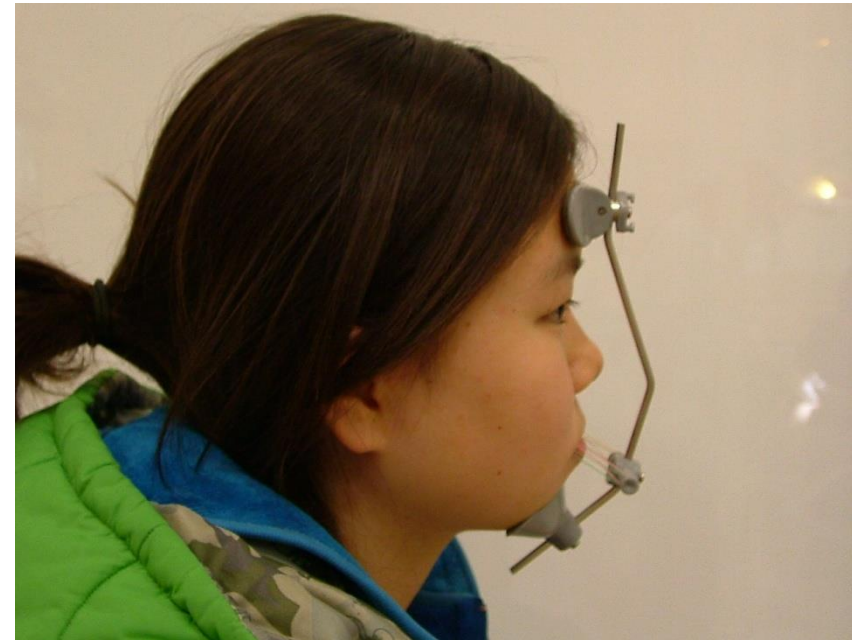
# Early Correction of Class III

with Facemask and Anchorplus Orthodontic Mini-Implant Screws

**Facemask with mini-implant**



**Facemask with mini-Implant**



# Early Correction of Class III

with Facemask and Anchorplus Orthodontic Mini-Implant Screws

**Initial**



**Progress**

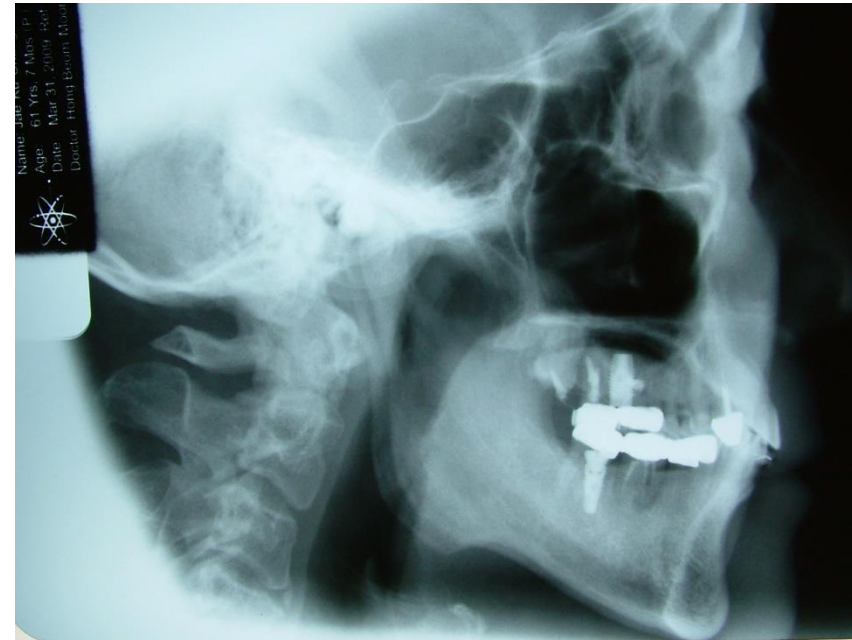
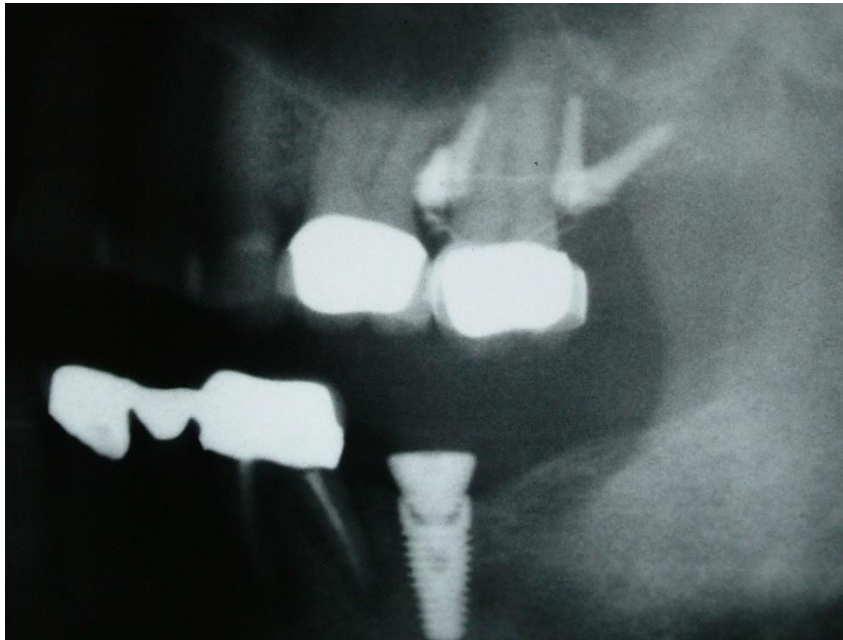


# Molar Intrusion

with Anchorplus Orthodontic Mini-Implant Screws

**Mini-Implant Screws for #  
15**

**JKC**





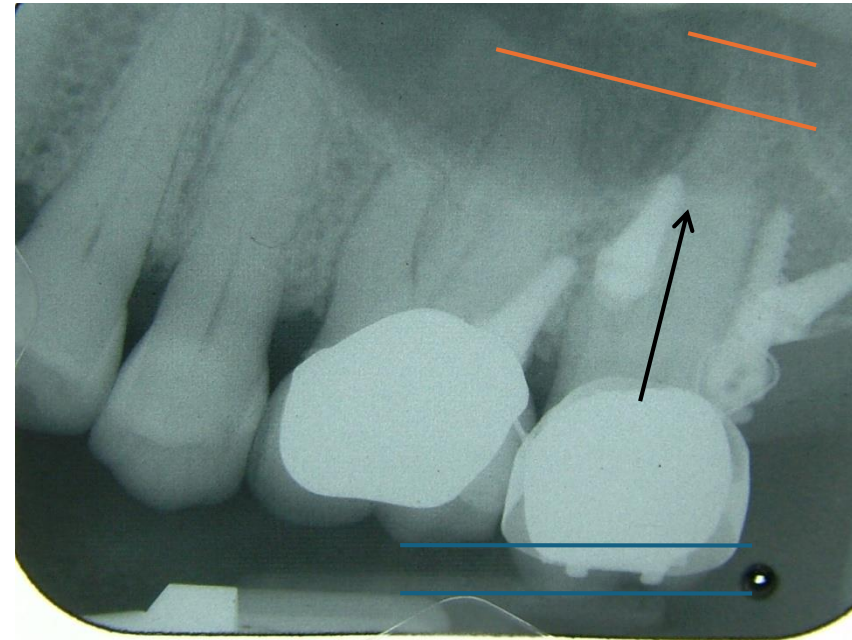
# Molar Intrusion

with Anchorplus Orthodontic Mini-Implant Screws

**Initial #15**  
**(3mm Supra-Eruption)** 3-3-09



**Progress #15**  
**(1.5mm intrusion IN 1 month)** 4-6-09





# Molar Intrusion

with Anchorplus Orthodontic Mini-Implant Screws

**Initial** 3-3-09



**Final (Stabilization)** 8-5-09



# Molar Intrusion

**before**



**after**



# Vetical Problems– Anterior Open Bite

with Anchorplus Orthodontic Mini-Implant Screws

**Initial** 3-9-09



**Progress (1 month)** 4-6-09





# Vertical Problems— Anterior Open Bite

with Anchorplus Orthodontic Mini-Implant Screws

## Posterior Mini-implants

Intrusion of molars



## Anterior Vertical Elastics

Extrusion of incisors





# Vetical Problems– Anterior Open Bite

with Anchorplus Orthodontic Mini-Implant Screws

**Initial** 3-9-09



**Progress (5 months)** 8-10-09



# Vertical Problems– Anterior Open Bite

with Anchorplus Orthodontic Mini-Implant Screws

**Initial** 3-9-09



**Progress (5 months)** 8-10-09



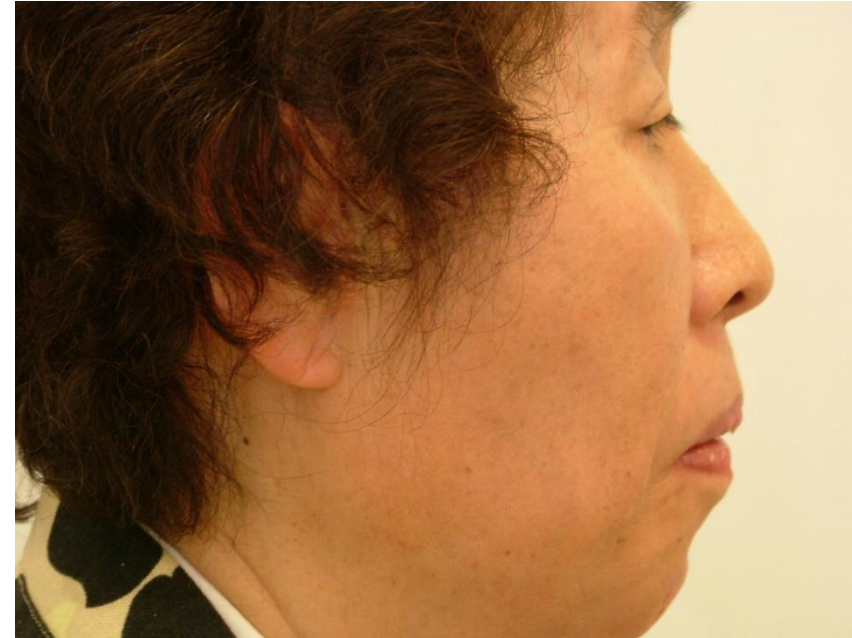
# Vetical Problems– Anterior Open Bite

with Anchorplus Orthodontic Mini-Implant Screws

**Initial** 3-9-09

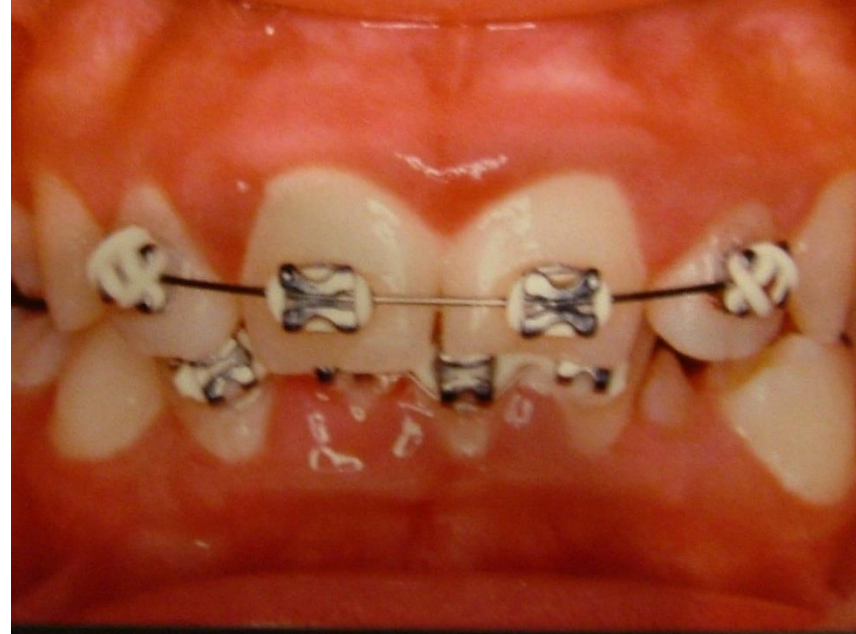


**Progress (1 month)** 4-6-09





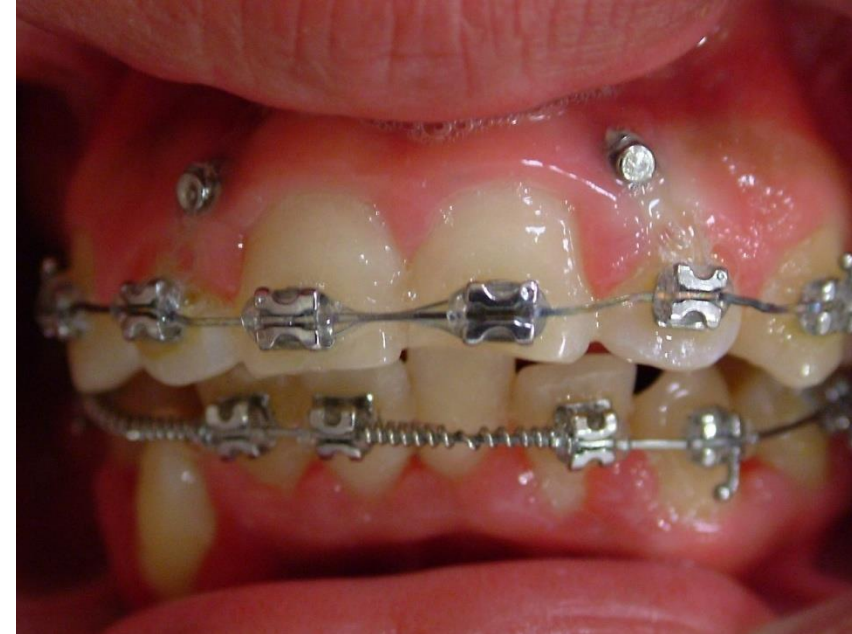
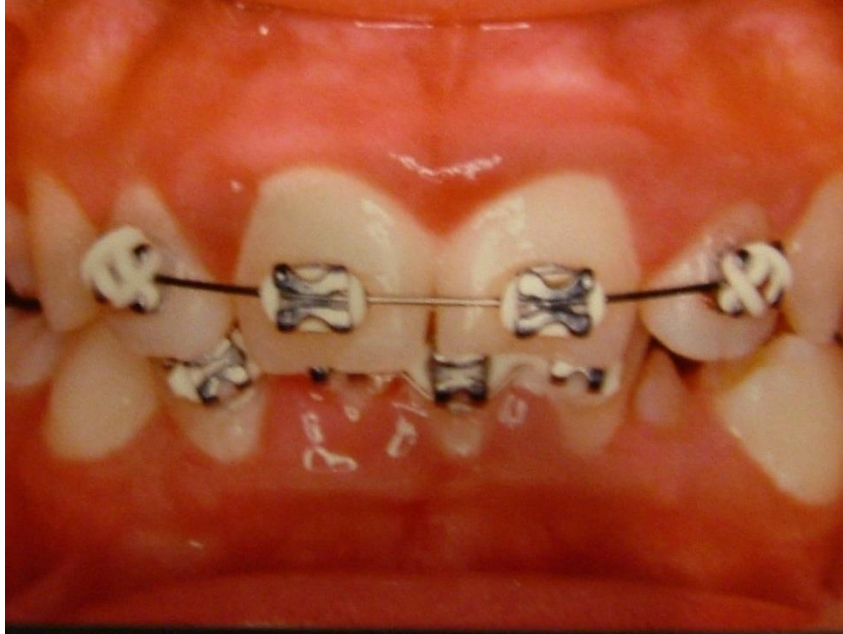
## Class II Deep Bite - Gummy Smile Correction





# Deep Bite – Gummy Smile Correction

with Anchorplus Orthodontic Mini-Implant Screws



# Deep Bite – Gummy Smile Correction

with Anchorplus Orthodontic Mini-Implant Screws



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# *Anchorplus*

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- ✓ *AAO Convention Presentation*
- ✓ *AAO TAD Brochure*





AAO 109th ANNUAL SESSION, BOSTON, MAY 1-5 2009  
AMERICAN ASSOCIATION OF ORTHODONTISTS  
TABLE CLINICS



Efficient Sliding Mechanics using Tri-Dimensional Dynamica Archwire  
with Anchorplus Mini-Implant Screws (TAD).

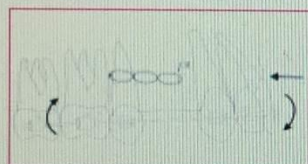
Daniele Cantarella, DDS, Treviso, Italy  
Hong Beom Moon, DDS, MS, FICD, Los Angeles, California, USA  
Adjunct Professor, Section of Orthodontics, UCLA School of Dentistry

In closing extraction spaces using slide mechanics with preadjusted appliances, Problems such as deepening anterior bite, opening posterior bite, lingually tilted upper and lower incisors can be found, especially in retracting anterior teeth with TADs. To overcome these problems, tri-dimensional Dynamica (G&H Wire, Franklin, IN, USA) archwire is introduced (1) to fully express bracket preangulations from maximum size .021 x .025 of anterior segment and (2) to intrude incisors using soldered gingival offset of intermediate segment, (3) while undersized posterior segment of wire .018 x .022 can facilitate sliding. To accommodate more effective sliding mechanics, well-designed TADs, Neo Anchorplus (Anchorplus, Los Angeles, CA, USA) mini-implant screws 1.4mm x 8mm with triple threads that would make it more durable and stable can be used simultaneously. Efficient sliding with minimum side effect can be achieved using combination of Dynamica wire and Anchorplus mini-implant screws or TADs.

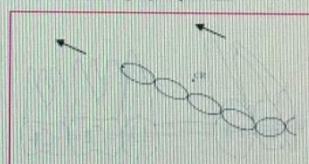


DYNAMIC ARCHWIRE: EN-MASS RETRACTION WITH ANCHORPLUS MINI-SCREWS

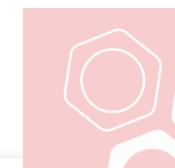
When screws are placed in the lower arch in a symmetrical distribution in relation to the midline, they can be used to retract the entire arch. This is the principle of the Dynamic Archwire. The screws are used to retract the entire arch. The screws are used to retract the entire arch. The screws are used to retract the entire arch.



The screws are placed in the lower arch in a symmetrical distribution in relation to the midline. This is the principle of the Dynamic Archwire. The screws are used to retract the entire arch. The screws are used to retract the entire arch. The screws are used to retract the entire arch.



The screws are placed in the upper arch in a symmetrical distribution in relation to the midline. This is the principle of the Dynamic Archwire. The screws are used to retract the entire arch. The screws are used to retract the entire arch. The screws are used to retract the entire arch.



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## Overcoming Anchorage Limitations

### TADs

Temporary anchorage devices (TADs) for orthodontic anchorage are widely accepted. They are changing the way orthodontists treat some patients' malocclusions. TADs provide a fixed point from which to apply force to move teeth. They can be placed in many different sites in the mouth. Placement is customized for each patient. TADs may contribute to predictable results, shorter treatment time and completion of active treatment on schedule.



TADs range from 6 to 12 millimeters in length.

There is little or no discomfort when a TAD is placed. Caring for your TAD generally requires only routine brushing.

Although small, the TAD does a big job of helping your orthodontist move your teeth predictably into their optimal positions.

Your orthodontist, a member of the American Association of Orthodontists, sincerely thanks you for placing your confidence in him/her to treat your orthodontic needs.

Orthodontists receive an additional two to three years of specialized education beyond dental school to learn the proper way to align and straighten teeth. Only those with this education may call themselves "orthodontists," and only orthodontists are eligible for membership in the American Association of Orthodontists.

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American Association of  
Orthodontists



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## Temporary Anchorage Devices (TADs)

For Predictable Tooth Movement





### What are TADs (temporary anchorage devices)?

TADs are titanium-alloy mini-screws, ranging from 6 to 12 millimeters in length and 1.2 to 2 millimeters in diameter. They are fixed to bone temporarily to enhance orthodontic anchorage. Titanium alloys have been used as joint replacements and for dental implants for many years. These alloys are not rejected by the body.

Orthodontists often use holding arches, also known as space maintainers, and headgear to control anchorage and minimize the movement of certain teeth while carrying out the desired movement of other teeth. TADs allow orthodontists to overcome limitations of holding arches and headgear and perform difficult tooth movements predictably.



A TAD is inserted.

TADs can also provide a point of anchorage for patients with missing teeth.

### Where are TADs placed?

TADs are placed in the bone between the roots of the teeth and can be placed in the bone in the roof of the mouth as well.

### How is a TAD placed and does it hurt?

Placement is minimally invasive and often completed using only topical anesthetic. TADs are inserted directly into the bone using a special instrument. There is little or no discomfort because there are no nerve endings in the bone tissue. Once placed, the orthodontist is able to use the TAD as orthodontic anchorage immediately.

Because of the possibility that TADs can loosen or fall out, patients should avoid picking or pulling at the TAD. If the TAD does become loose or come out, call your orthodontist as soon as possible.



The site for the TAD is selected.



The TAD immediately after placement.

### Who places the TAD?

Because orthodontists have the training and expertise to place them, many orthodontists place TADs themselves. This ensures the TAD is placed exactly where the orthodontist wants it. Some orthodontists may choose to have a TAD placed by another dental specialist.



A TAD serves as an anchor to perform difficult tooth movements predictably.

### How long are TADs left in?

Your orthodontist will advise you about how long a TAD will be needed. It may be required only for a few months, or it may be needed throughout your orthodontic treatment. TADs are versatile and may be used in different areas of the mouth during different parts of treatment.

### Can TADs be used for patients at any age?

TADs are placed on patients who have permanent teeth. Patients with active periodontal (gum) disease may not be candidates for TADs.

# Patent (Pending) Lee & Mok

특 허 명 칭	출원국	출원/등록일
<i>HLA Ca-P Film Coating of Anchorplus Orthodontic Mini-Implant Screw</i>	해 외	2023

NeoAnchor Plus™

The most sophisticated orthodontic  
mini-screw system ever.



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# FDA Approval (Anchorplus)

510 (k) Submission-Orthodontic Screw

K053629

Attachment A

MAY 31 2006

## 510(k) Summary

This summary of 510(k) safety and effectiveness information is being submitted in accordance with requirements of 21 CFR Part 807.92.

Date: September 10, 2005

### 1. Company and Correspondent making the submission:

Name – KJ MEDTECH  
Address – 974-3 Wolchul-dong, Buk-gu, Gwangju-city, KOREA, 500-460  
Telephone – +82(62) 972-5476  
Fax – +82(62) 973-2809  
Contact – Mrs. Jin-Sook Kim / Manager  
Internet – <http://www.kjmedich.co.kr>

### 2. Device :

Proprietary Name – Anchor plus / Neo Anchor plus  
Common Name – Orthodontic Screw  
Classification Name – Endosseous Dental Implant

### 3. Predicate Device :

- 1) Nobel Biocare USA, Inc.  
Nobel Biocare's InPlant™ Orthodontic Anchor System  
K000643(Decision Date - 10/07/2000)
- 2) Jeil Medical Corporation  
Dual Top Anchor Systems Screws  
K033767(Decision Date - 02/24/2004)

### 4. Classifications Names & Citations :



# Anchorplus System Package



# Contact

## Anchorplus



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Los Angeles (213) 210-4131

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hbmoon@aol.com

# Thank you

For your attention

!

