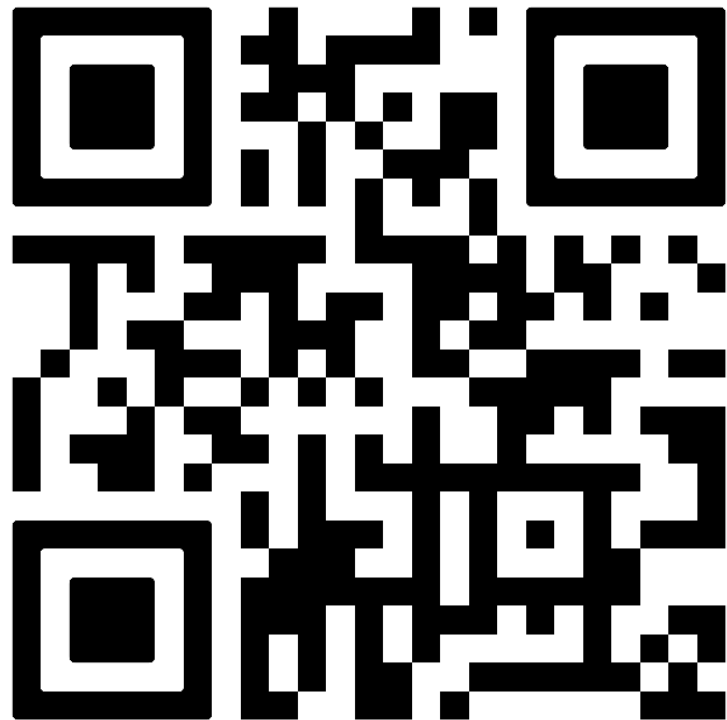




# DC BIOCLEAR LEARNING CENTER

Tacoma USA · Solihull UK  
Varberg Sweden · Cairo Egypt  
Syracuse Italy · Taubate Brazil  
Livermore CA (Bioclear pediatrics)  
Seoul Korea · Madrid/Barcelona  
Sydney Australia · Baghdad Iraq

For a copy of today's presentation,  
Learning Center info or the essential  
Learning Center Library





## Recommended Bioclear Matrices by Indication

For more information contact us  
**Bioclear Matrix Systems**  
1-855-712-5327



### 360 Veneer

Class V and to significantly increase overjet or correct anterior open bite.



### TSS Kit

**Anterior Teeth:**  
Class III, Class IV, Class V  
Fractured Incisors  
Severe Wear  
Composite Veneer  
Full Composite Crown



### BT (Black Triangle) Kit

**Anterior Teeth:**  
Black Triangles  
Peg Laterals  
Diastema Closure  
Instant Ortho  
Class V



### Evolve Matrix Kit

**Posterior Teeth:**  
Class I, Class II, Class V



TOOTH & SURFACE SPECIFIC  
MATRIX SYSTEM

BY  BIOCLEAR

Item Number:

#828011



**Anterior Matrices**

#6 through #11 in Mesial & Distal  
Small & Medium Lower Incisor

**Wedges**

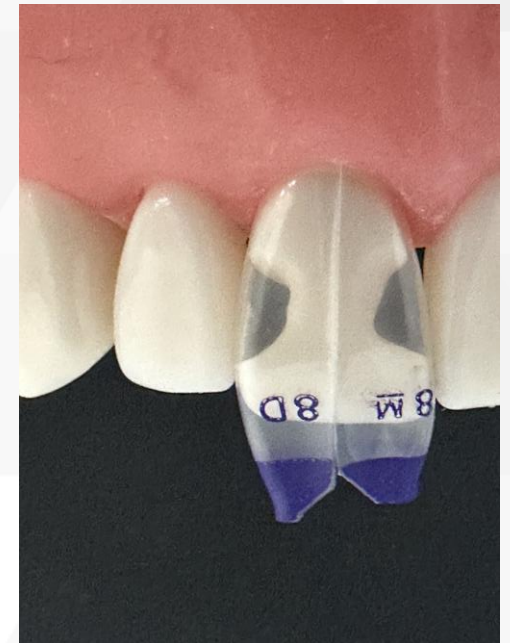
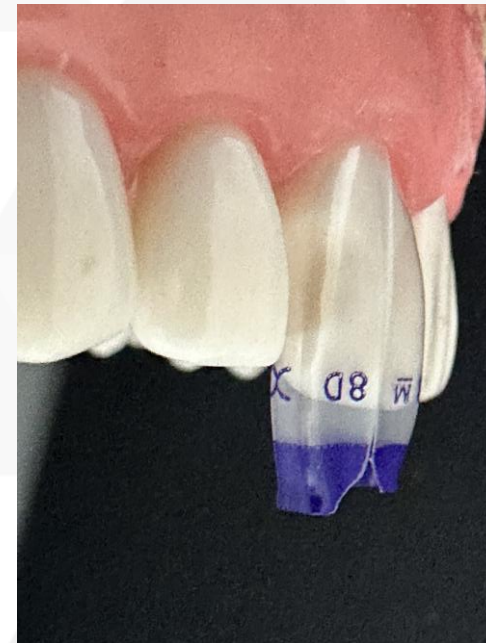
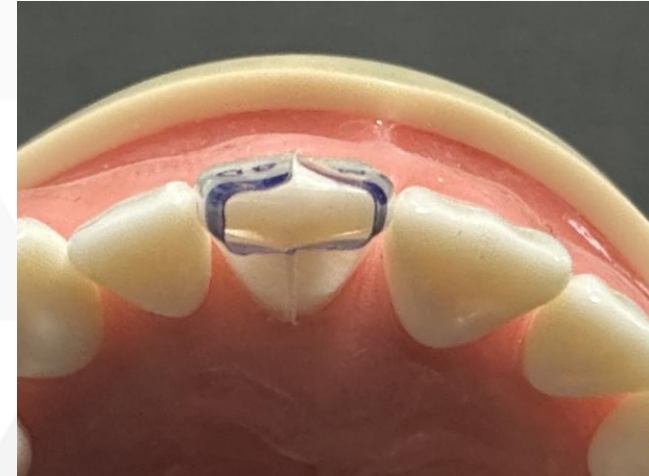
Small Diamond Wedges  
Medium Diamond Wedges

# Matrix Shape

**For the first time, we have a matrix that is actually shaped exactly like a normal tooth.**

Bioclear's patented technology on the TSS creates a small facial and lingual overlap that allows for differentiation in tooth size – acting like an expandable form.

*e.g., pairing 8M with 8D provides an ideal containment system for nearly every maxillary central incisor (#8)*





**The next generation of anterior matrices: We're taking the guesswork out of matrix selection**



# Indications

- Small to large anterior decay (Class III and IV)
- Wrap-around decalcification or mottled enamel cases
- Composite veneers
- Direct composite crowns
- Incisal edge or tooth fracture
- Basically, any tooth that has a normal papilla



# The Bioclear TSS Matrix System

*Tooth & Surface Specific Matrix System for Anterior Teeth*

---







Dan placed a Direct Contact Strut which made his life way easier and the case much better.



Dan placed a Direct Contact Strut which made his life way easier and the case much better.









Courtesy of Dr.  
Dan Henricksen



Majesty ES flow and paste combo

Is monolithic injection molded composite a viable alternative to full ceramic crowns in some cases?

You be the judge of that



The patient is a 35- year-old male. His original chief complaint was a discolored filling on the distal of tooth #8. The patient was given two treatment plans, one to simply replace a few defective restorations and remove caries with traditional fillings or in patient terms we said, “We can patch the holes, or I can rejuvenate your smile. The patchwork plan will be healthy but will not make a significant esthetic change. In addition, the severe wear and acid erosion present on the palatal surfaces could eventually lead to catastrophic problems later i.e. root canals, infection, and tooth loss.” The patient opted for Bioclear rejuvenation versus simple fillings because he wanted a beautiful smile. He chose Bioclear in lieu of crowns because he understood that Bioclear is a more conservative and healthier approach to achieving his goals than traditional crowns.

Phase one of the treatment plan was to restore the anterior six teeth, simultaneously opening the vertical dimension to reduce the need for aggressive tooth reduction for material thickness. In addition, because the patient needed to have the teeth lengthened by 2 mm, opening the vertical dimension by 2 mm allowed the overbite to be more ideal. Because the patient could only commit to the cost of the six Bioclear restorations (\$11,600) we placed transitional occlusal flowable composites (thick sealants) on the four maxillary premolar teeth, and we will allow the molars to settle into occlusion utilizing the well-researched Dahl Technique.

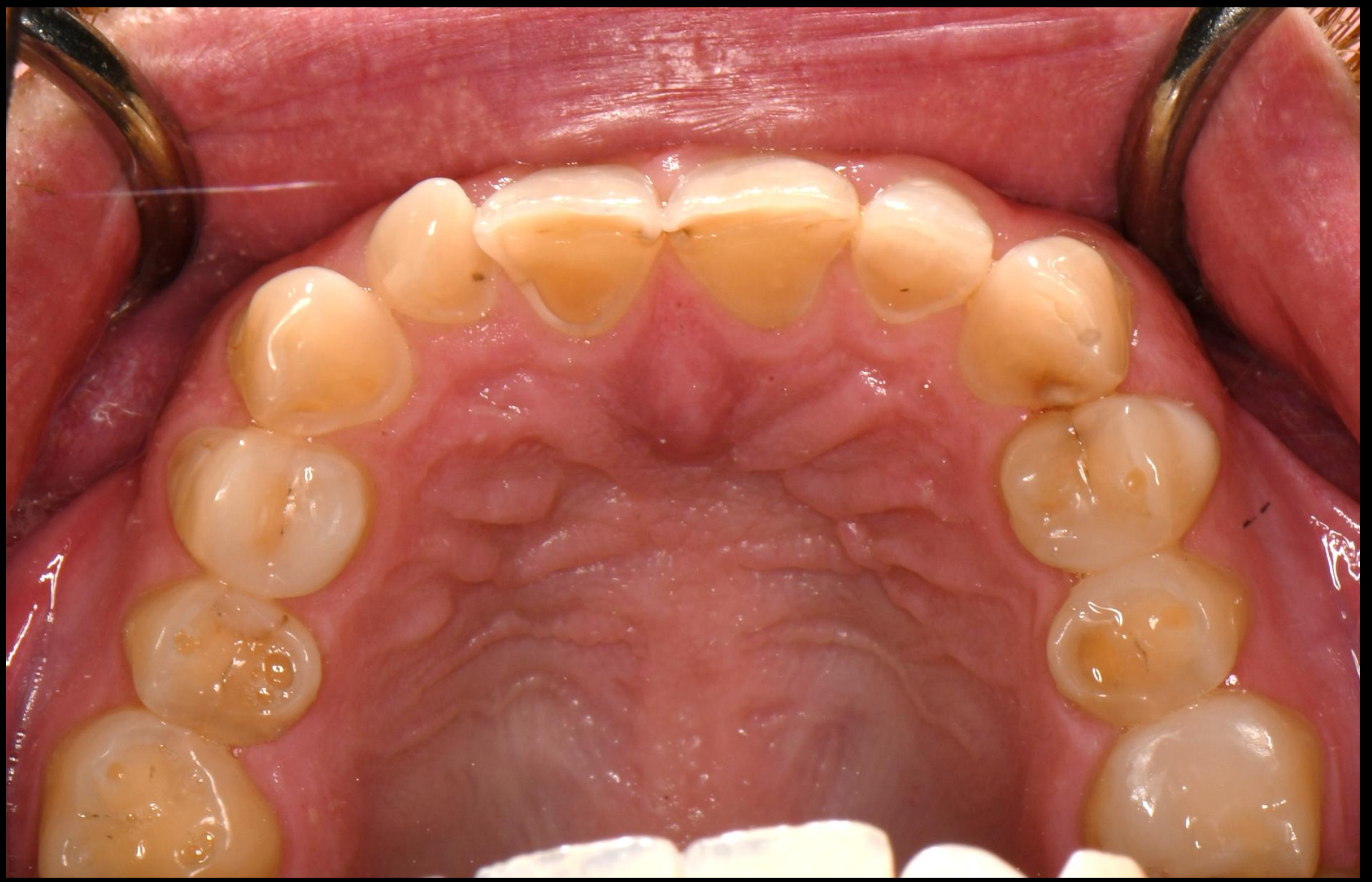
Phase two will be to restore the remaining teeth with Bioclear when the patient has his finances ready.

#### Treatment Summary Short Version:

Treatment was finished in a single 4-hour session. (Less experienced clinicians should plan to give one hour per tooth). Bioclear TSS Matrices were utilized on all the teeth except tooth #10. #10 required the Bioclear BT matrix system to create “instant ortho” and because a diastema was present there. Bioclear Diamond wedges were used as needed in areas where the contact was lost during caries removal or removal of old composites. Bioclear RSP X-course discs (Black) were used to shape the incisal edges and smooth the small seams present where the matrices meet on the facial and palatal. Final polish was achieved with Bioclear Magic Mix and then Rock Star Polish cups and cones.

One-week postoperative visit revealed healthy teeth and gingiva. The patient was ecstatic about his new smile, had zero post-operative pain or sensitivity, and expressed that his new bite with the increase in VDO felt more comfortable than before.







What percentage of the tooth is removed for a conservative crown prep?



Source: Google Images

# What percentage of the tooth is removed for a conservative crown prep?



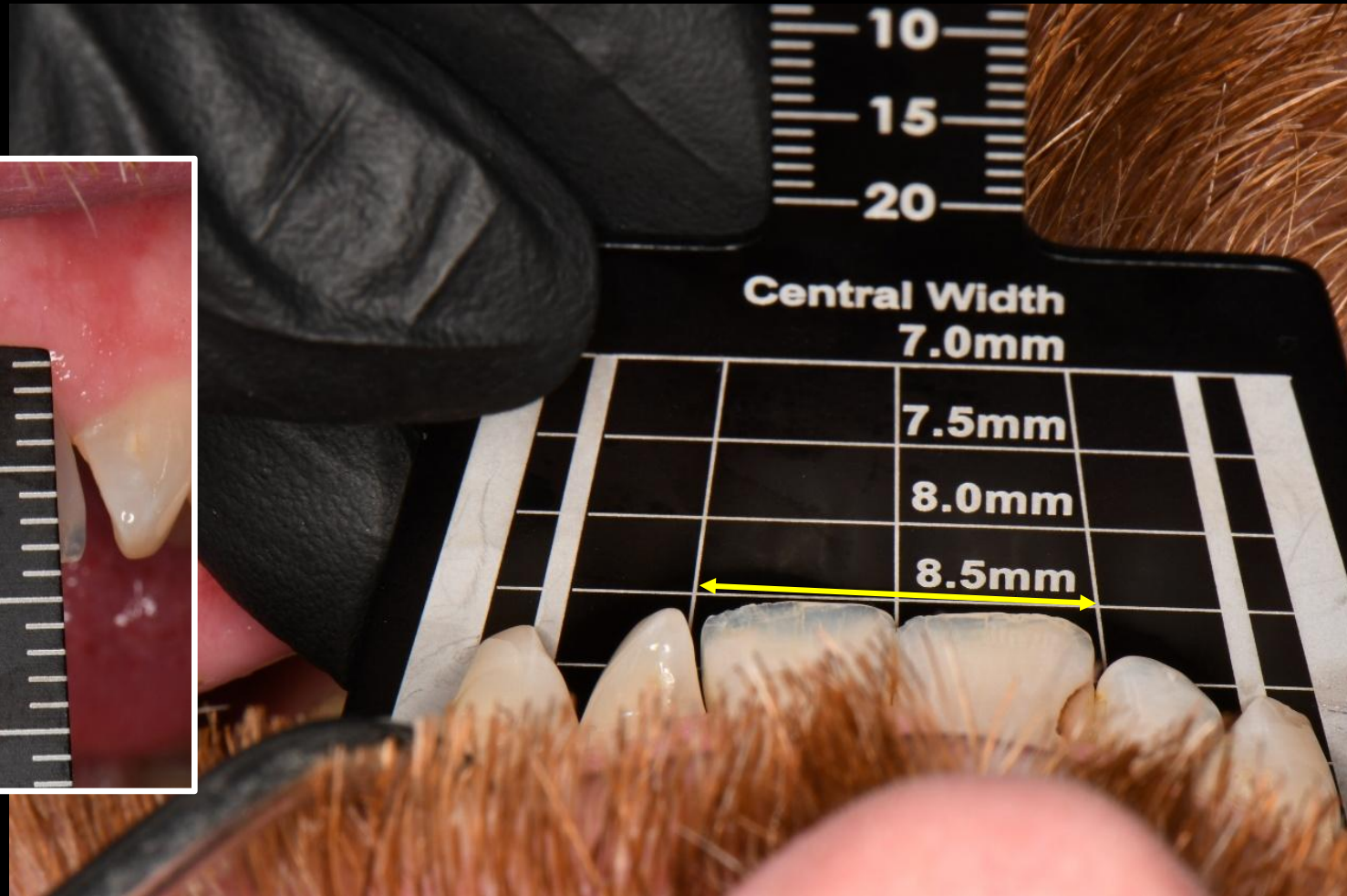
Edelhoff D, Sorensen JA.  
Tooth Structure Removal Associated with Various Preparation Designs for Posterior Teeth.  
Int J Periodontics Restorative Dent 2002; vol 22; 3: 240-249.



How long are his teeth? 8.5mm



How wide are his teeth? 8.5mm





Central Width  
7.0mm

7.5mm
8.0mm
8.5mm
9.0mm
9.5mm
10mm

 **Panadent**  
**Esthetic Proportion**  
**Gauge**

**Central Width** | **Central Height**

8.0mm	10.0mm
8.5mm	10.6mm
9.0mm	11.2mm
9.5mm	11.8mm
10.0mm	12.5mm













**TSS**

TOOTH & SURFACE SPECIFIC  
MATRIX SYSTEM  
BY BIOCLEAR



140 Anterior Matrices  
45 Standard Anterior & Diagonal  
Small & Medium Lower Incisor

75 Wedges  
25 Small, Medium  
50 Medium Wedges

**The next generation  
of anterior matrices:**

We're taking the  
guesswork out of to  
matrix selection



Contact your Bioclear Sales Rep to Pre-Order  
[www.bioclearmatrix.com](http://www.bioclearmatrix.com)  
1 855 712 5327



**TSS**

TOOTH & SURFACE SPECIFIC  
MATRIX SYSTEM  
BY BIOCLEAR



141 Anterior Matrices  
142 Straight Pin Retard & Guide  
143 & 144 Retard & Guide  
145 Straight Pin Retard & Guide  
146 Retard & Guide  
147 Retard & Guide  
148 Retard & Guide  
149 Retard & Guide  
150 Retard & Guide

**The next generation  
of anterior matrices:**  
We're taking the  
guesswork out of  
matrix selection



Contact your Bioclear Sales Rep to Pre-Order  
WWW.BIOCLEARMATRIX.COM  
1 800 770 5277





**TSS**

TOOTH & SURFACE SPECIFIC  
MATRIX SYSTEM  
BY BIOCLEAR



100 Anterior Matrices  
100 Anterior & Premolar & Canine  
Anterior & Premolar & Canine Matrices

75 Workups  
100 Workups  
100 Posterior Matrices

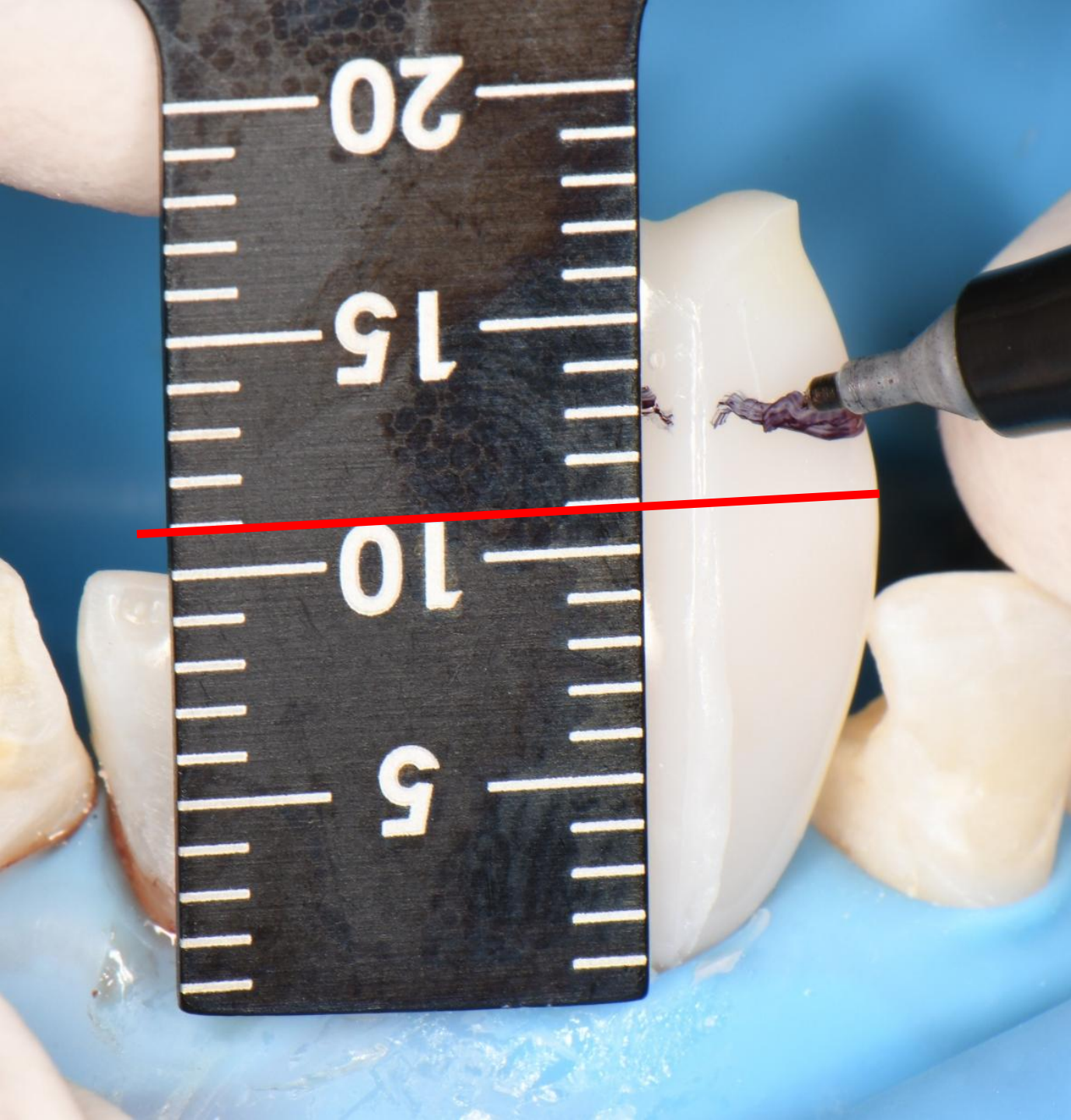
**The next generation  
of anterior matrices:**  
We're taking the  
guesswork out of  
matrix selection



Contact your BioClear Sales Rep to Pre-Order  
[www.bioclearmatrix.com](http://www.bioclearmatrix.com)  
1 855 752 5327





















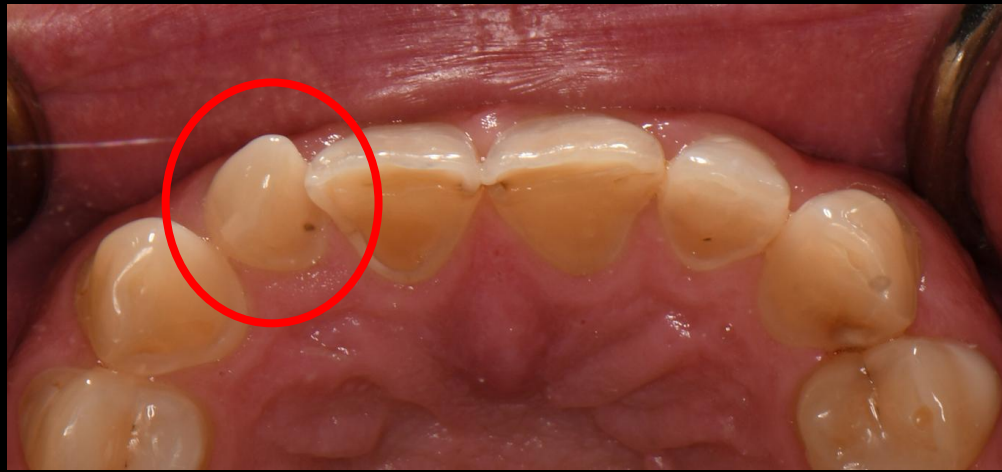
















Pre-operative



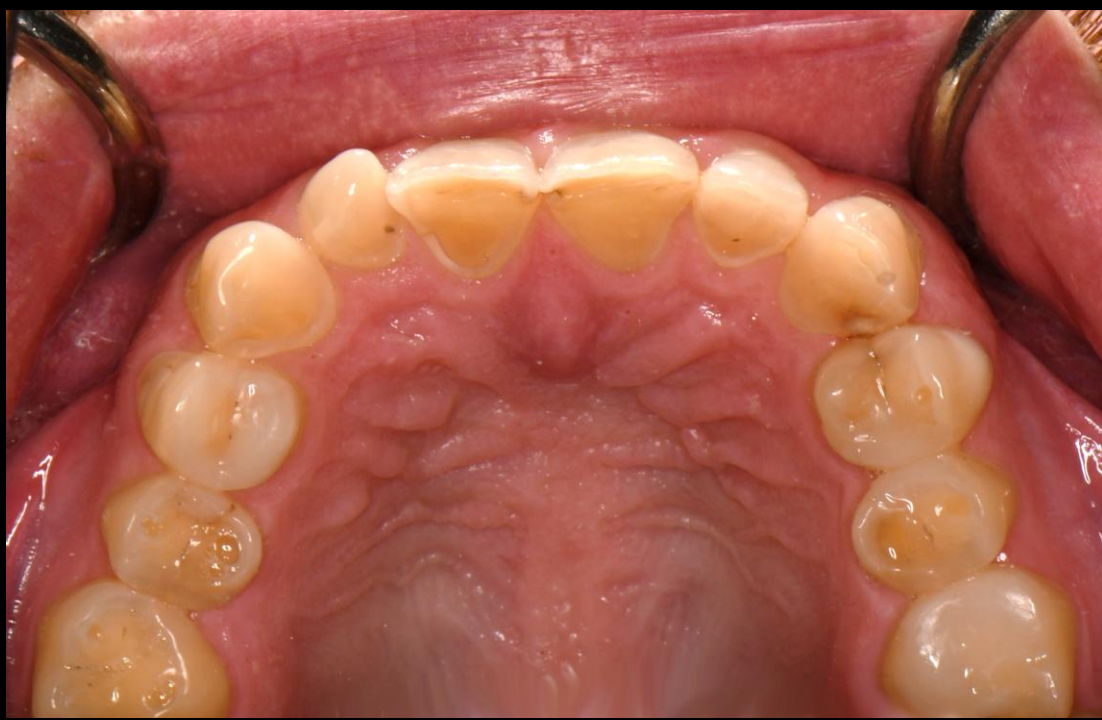
Immediate Post-Operative



One Week Post-Operative

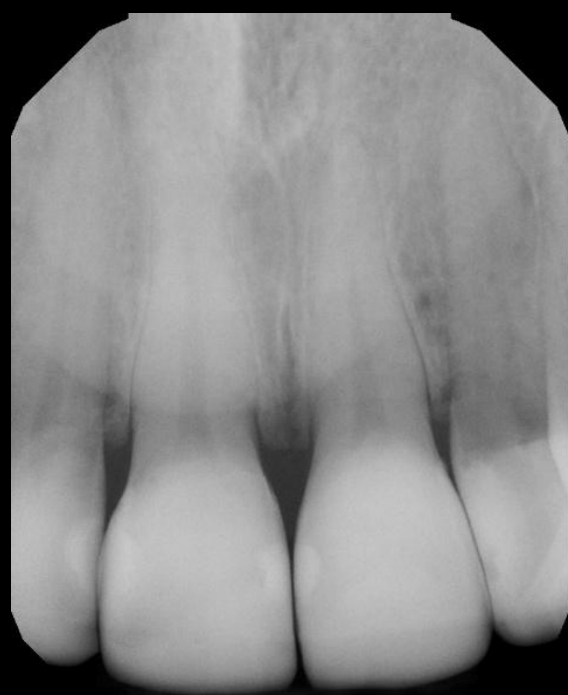












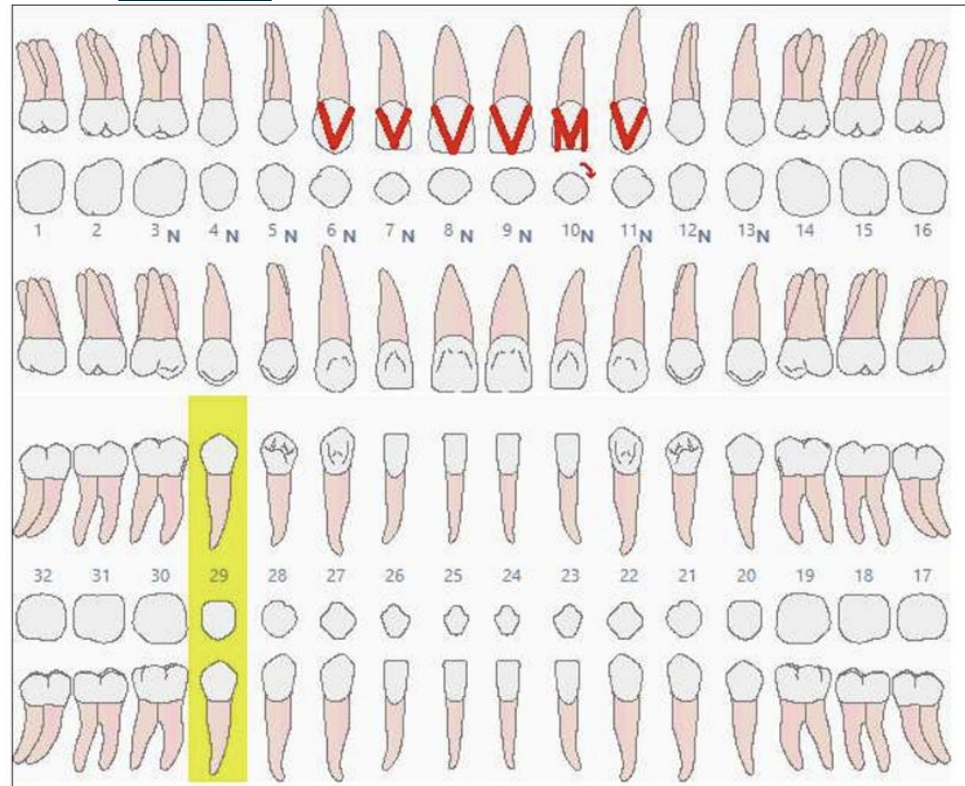
Last week...the  
day of treatment



1-week  
post-op

Patient Chart

Patient Name  
Patient ID

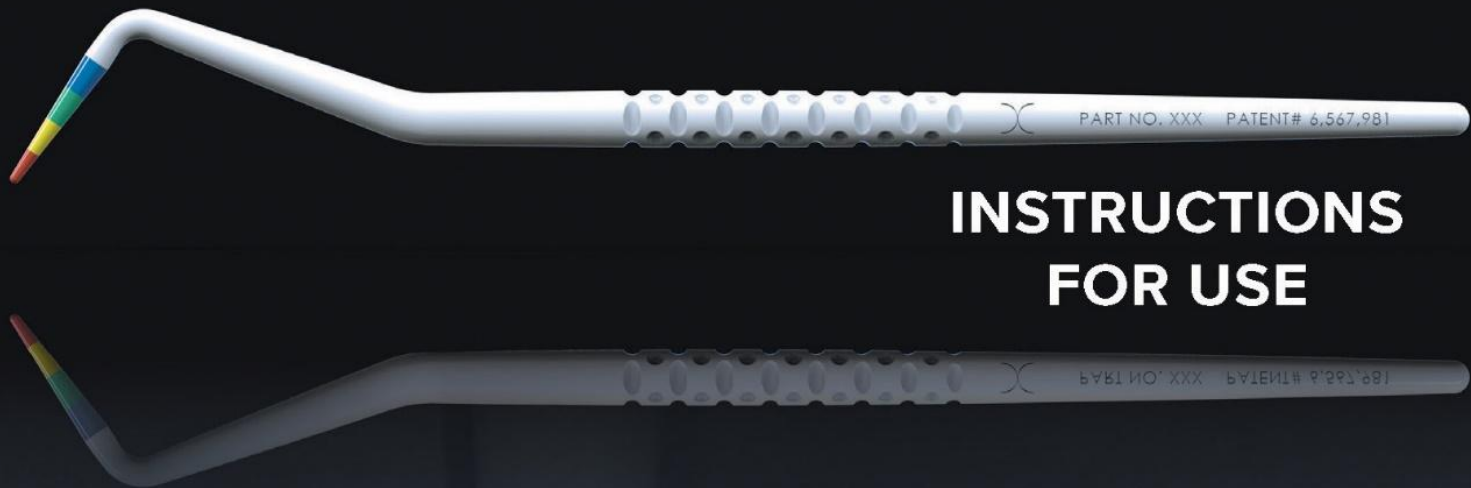


# Total Bioclear Case Fee?

# \$11,631

Date	Description	Provider	Tth	Surf	Status	Fee
1/15/2026	2993A - BIOCLEAR 360 REJUVENATION COMPLEX	David J. Clark, D.D.S.	6		Proposed	\$1,840.00
1/15/2026	2993A - BIOCLEAR 360 REJUVENATION COMPLEX	David J. Clark, D.D.S.	7		Proposed	\$1,840.00
1/15/2026	2993A - BIOCLEAR 360 REJUVENATION COMPLEX	David J. Clark, D.D.S.	8		Proposed	\$1,840.00
1/15/2026	2993A - BIOCLEAR 360 REJUVENATION COMPLEX	David J. Clark, D.D.S.	9		Proposed	\$1,840.00
1/15/2026	2993A - BIOCLEAR 360 REJUVENATION COMPLEX	David J. Clark, D.D.S.	10		Proposed	\$1,840.00
1/15/2026	2993A - BIOCLEAR 360 REJUVENATION COMPLEX	David J. Clark, D.D.S.	11		Proposed	\$1,840.00
1/15/2026	199.2 - BIOCLEAR ORTHO CORRECTION PER TOOTH	David J. Clark, D.D.S.	10		Proposed	\$306.00
1/15/2026	299.5 - BIOCLEAR DIASTEMA CLOSURE	David J. Clark, D.D.S.	10	MD	Proposed	\$285.00

**BT**  
**MATRIX**



**INSTRUCTIONS  
FOR USE**

**BIOCLEAR**



∞ BIOCLEAR

## **Bioclear Black Triangle Restoration**

*with Kuraray Majesty ES-2 Flowable*

---

# Bioclear BT matrix kit



# BLACK TRIANGLE SYSTEM INSTRUCTIONS FOR USE

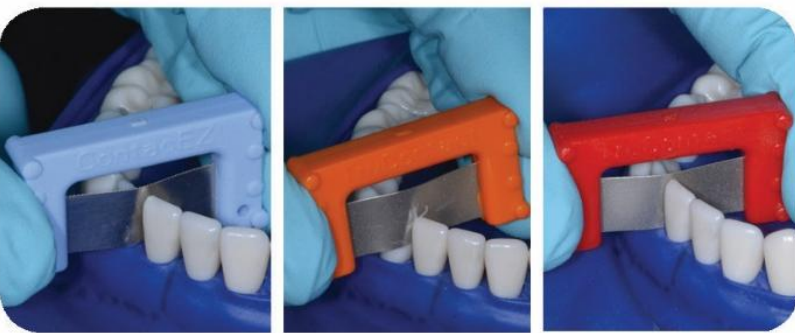
1  
GAP  
SIZING



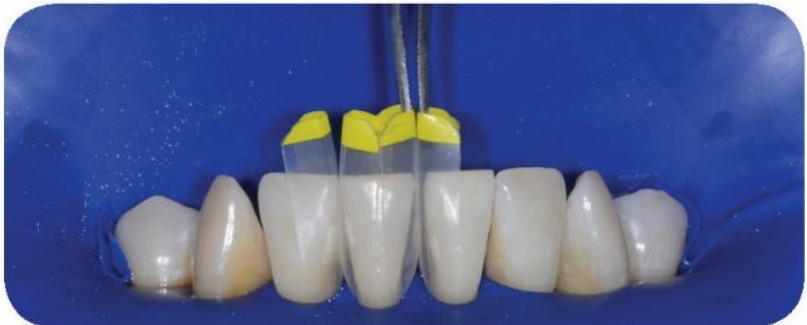
2  
DISCLOSE  
AND CLEAN



3  
CONTACT  
OPTIMIZATION



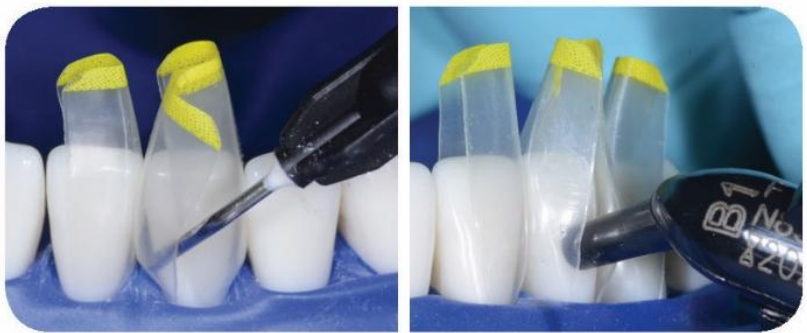
4  
MATRIX  
INSERTION

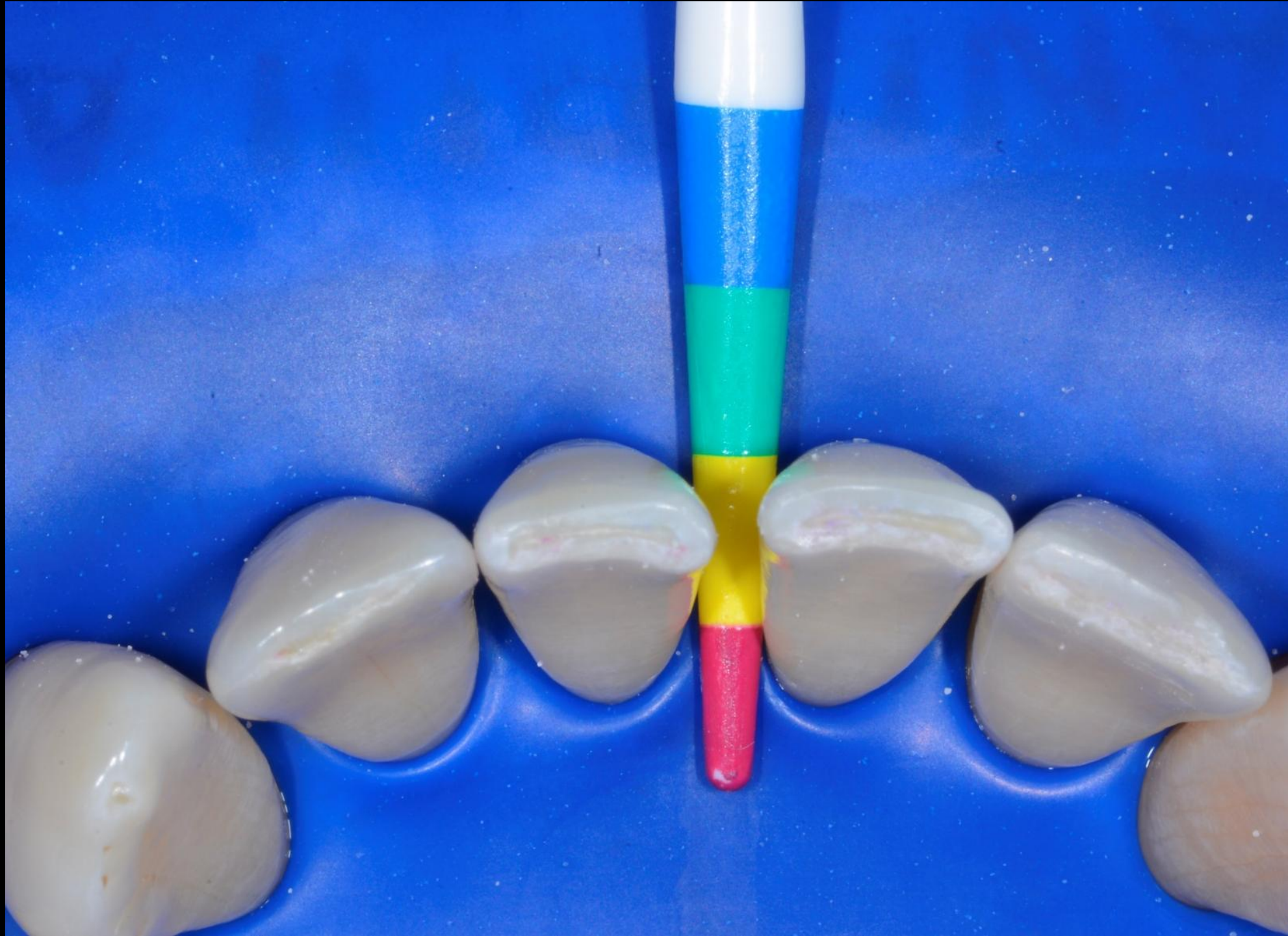


5  
ETCH  
AND RINSE



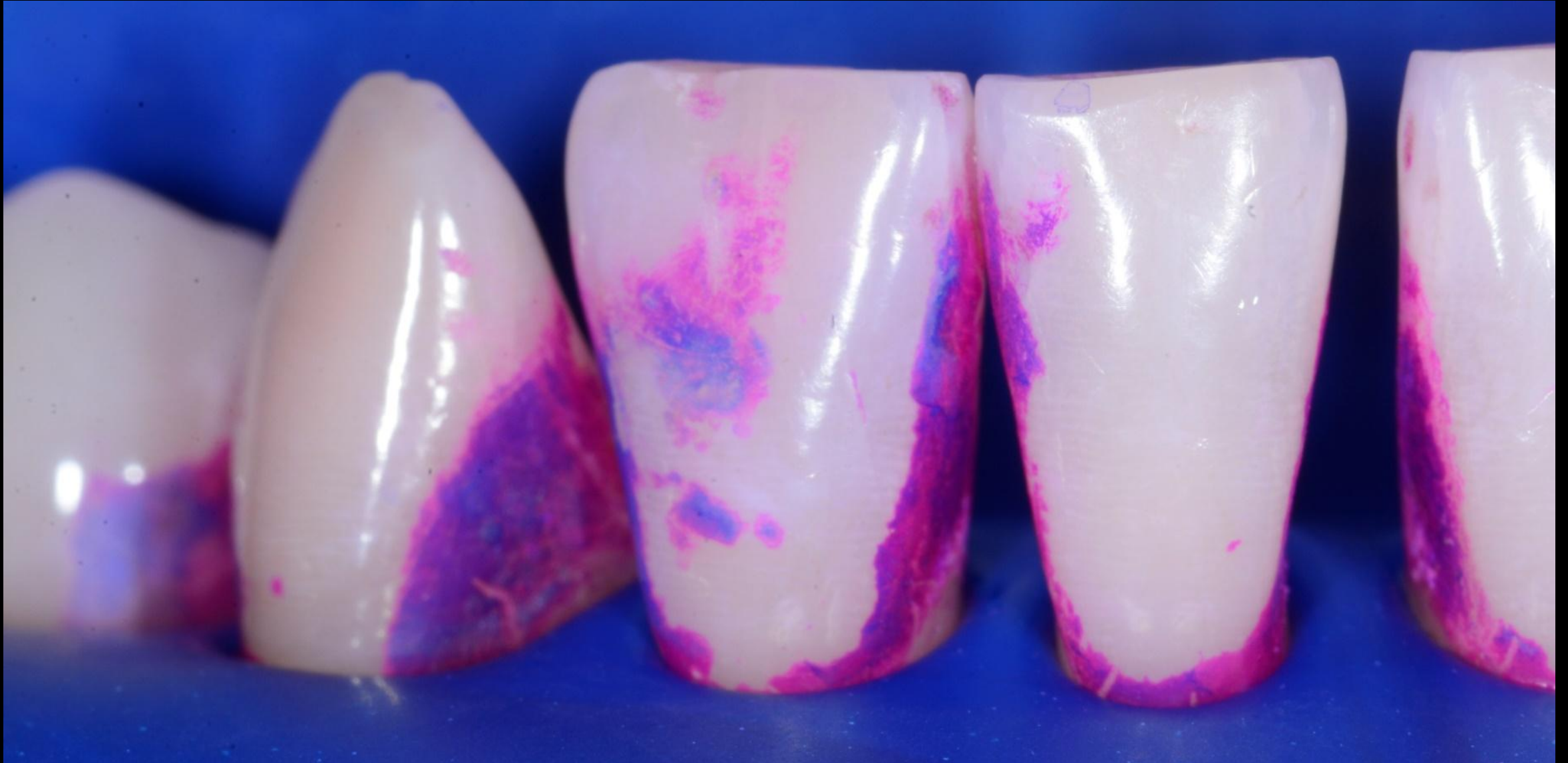
6  
ADHESION,  
INJECTION MOLD,  
LIGHT CURE,  
RELEASE MATRIX,  
FINISH







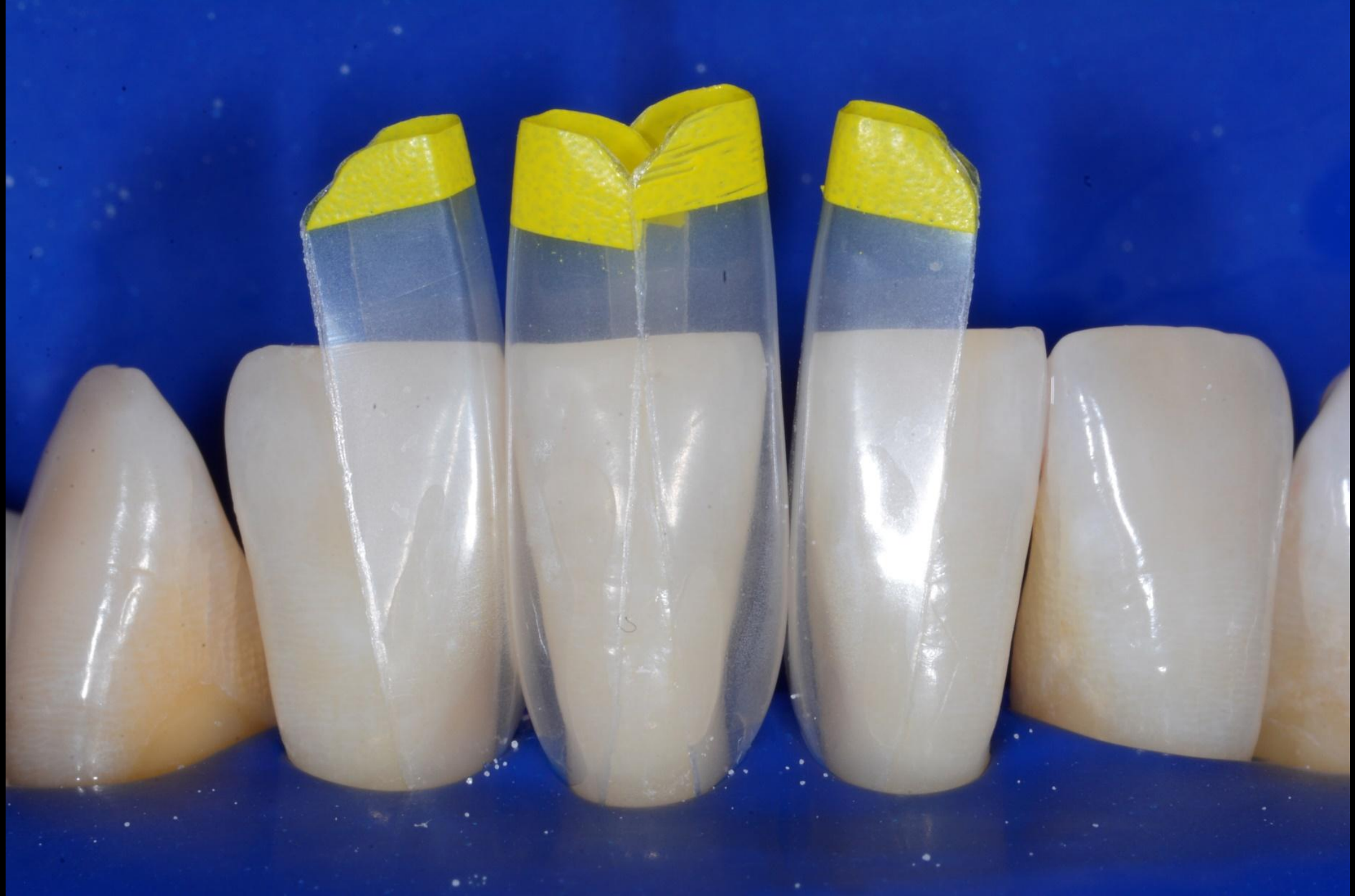
# Bioclear Dual Color Disclosing

















# Rock Star Polish

1



2



# Injection Overmolding: Possibilities and Long-Term Outcomes

## Finishing Ortho Cases

A young orthodontist with beautiful teeth...



# She HATED Her Black Triangles



Immediate post-operative



6 months post-operative



6 years post-operative





Pre-op



Post-Op



6 Years Post-Op



Pre-op



6 Years Post-Op



# The Bioclear Direct Contact Strut

*Creating Contacts for Diastemas, Peg Laterals, and Bioclear 360° Veneers*

- Abbreviated Version -

---

# Diastema Closure with the Bioclear BT matrix kit



# Dr Jose Moura 5/2025 Taubate Brazil







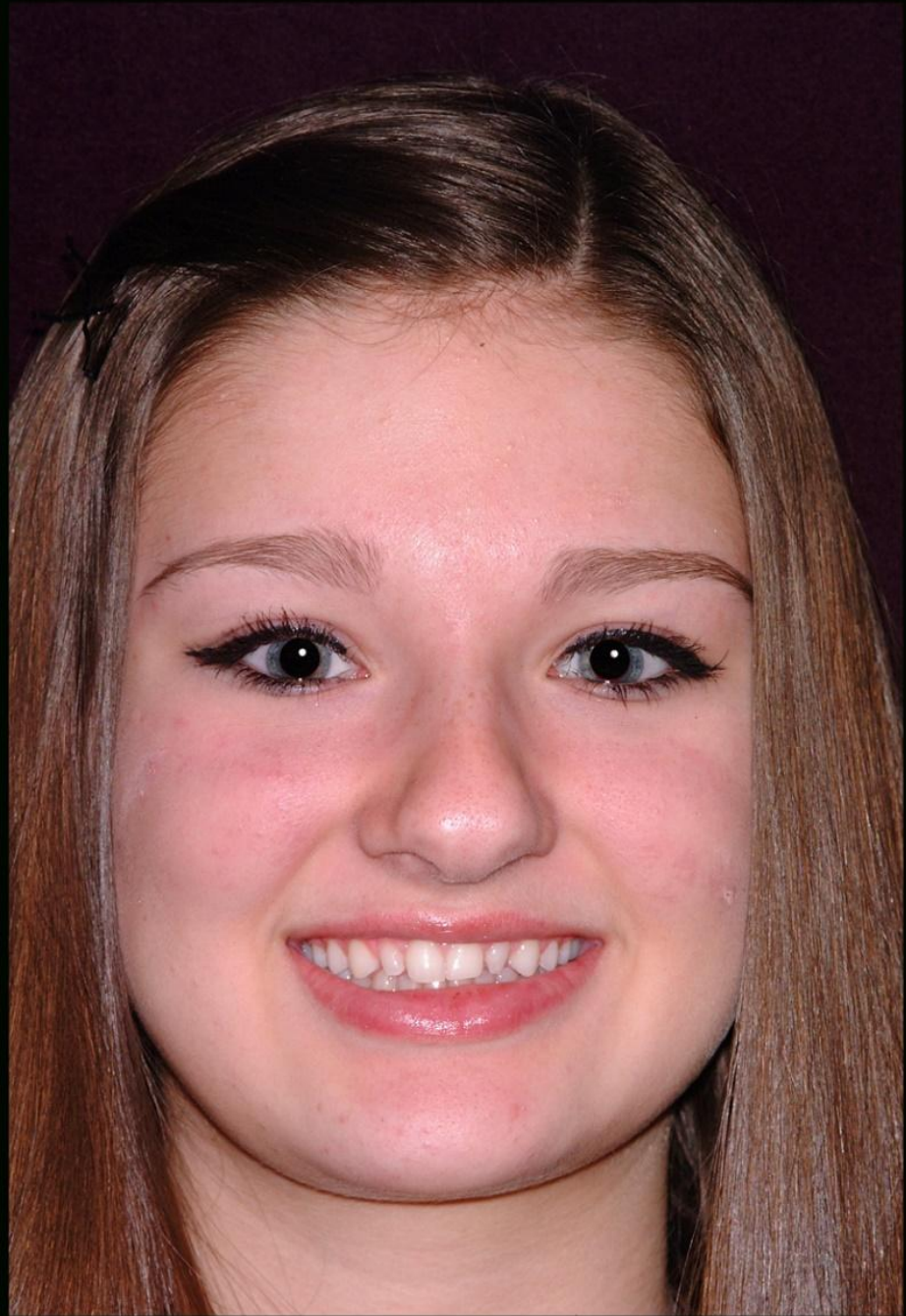




























3 year  
follow up



# 7 year follow up



# 11 year follow up

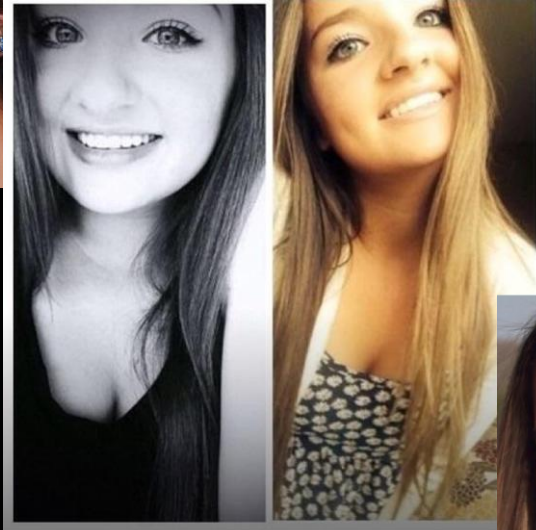




Pre-op



Immediate  
post-op



Three-year  
post-op



Seven-year  
post-op



Eleven-year  
post-op






Pre-op



Immediate  
post-op



Eleven-year  
post-op

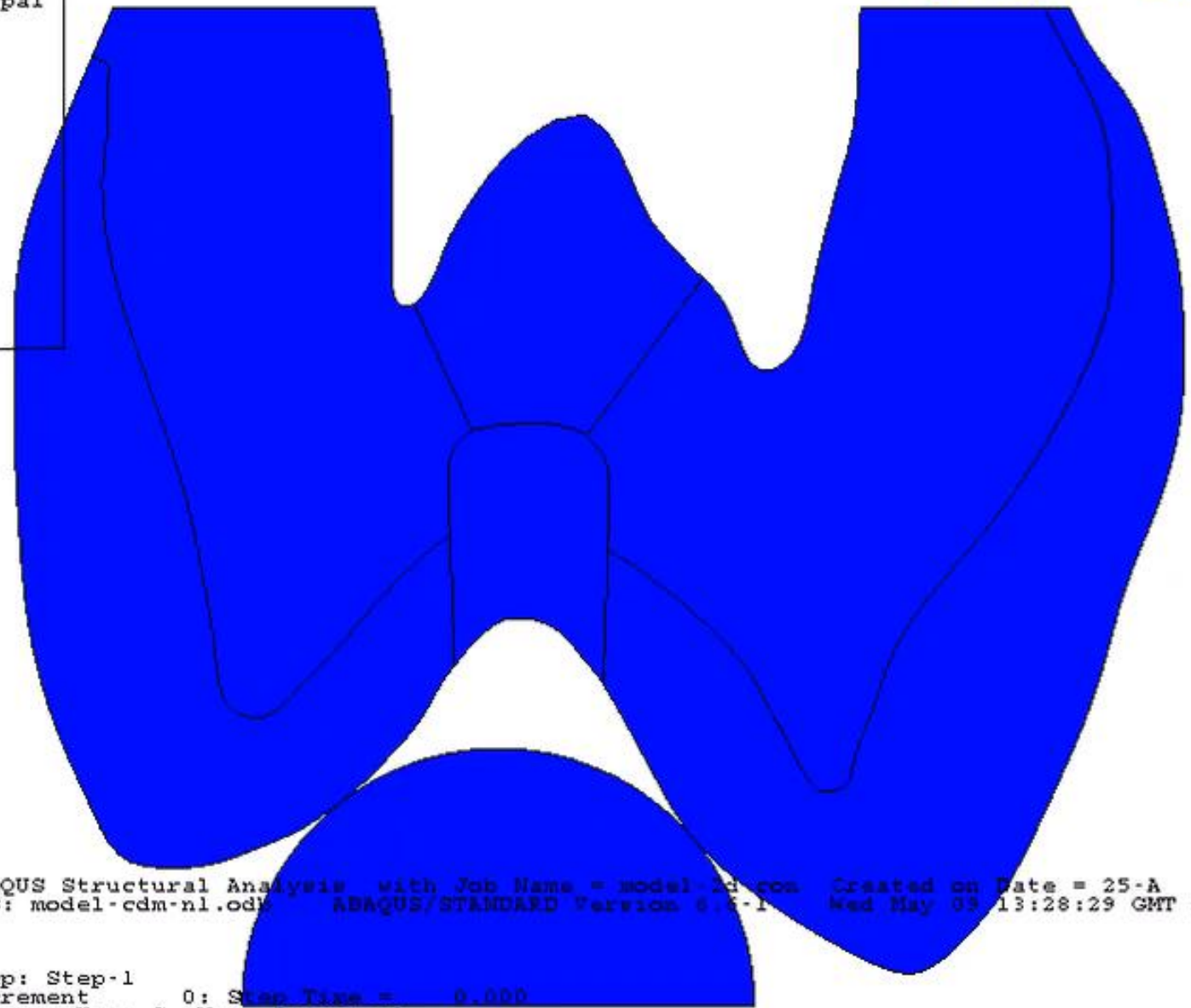
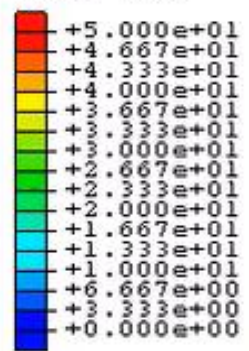


# The Great Tooth Killer: Epidemic of Cracked Teeth, the Science of Strong Teeth

*featuring*

 BIOCLEAR

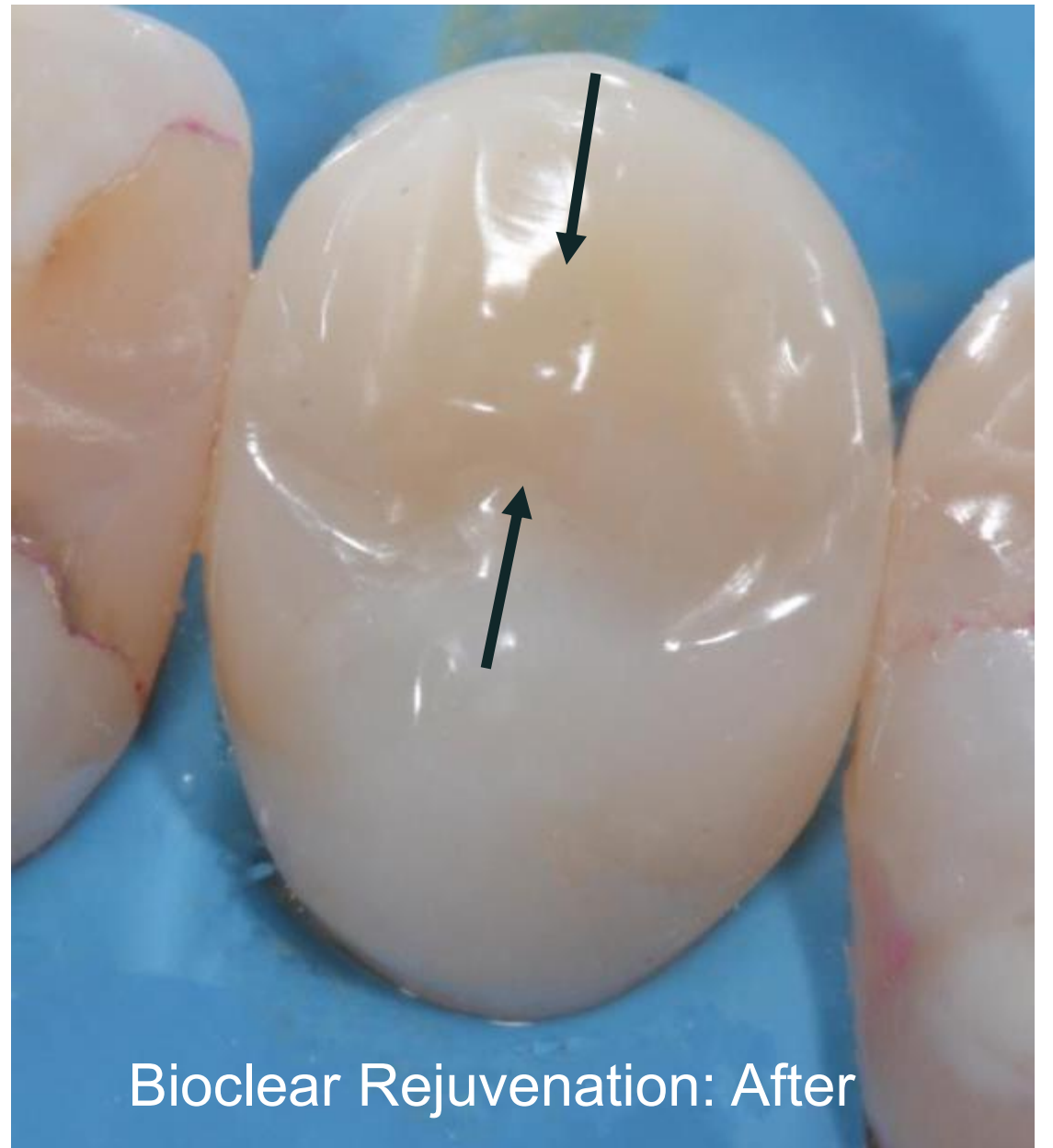
S, Max. Principal  
(Avg: 75%)



2  
3  
1

ABAQUS Structural Analysis with Job Name = model-cdm-nl.odb Created on Date = 25-A  
ODE: model-cdm-nl.odb ABAQUS/STANDARD Version 6.5-1 Wed May 03 13:28:29 GMT Daylight

Step: Step-1  
Increment 0: Step Time = 0.000  
Primary Var: S, Max. Principal  
Deformed Var: U Deformation Scale Factor: +1.000e+01





Dr. Rafael Bustamante  
Full Faculty



Dr. David  
Founder & F



Dr. Dominic Hassall  
Full Faculty



Dr. Marco Maiolino  
Full Faculty



Dr. Joshua Solomon  
Full Faculty



Dr. Abd  
F



Dr. Agnes  
Faculty Track



Dr. David Carroll  
Adjunct Faculty



DR. R. BUSTAMANTE



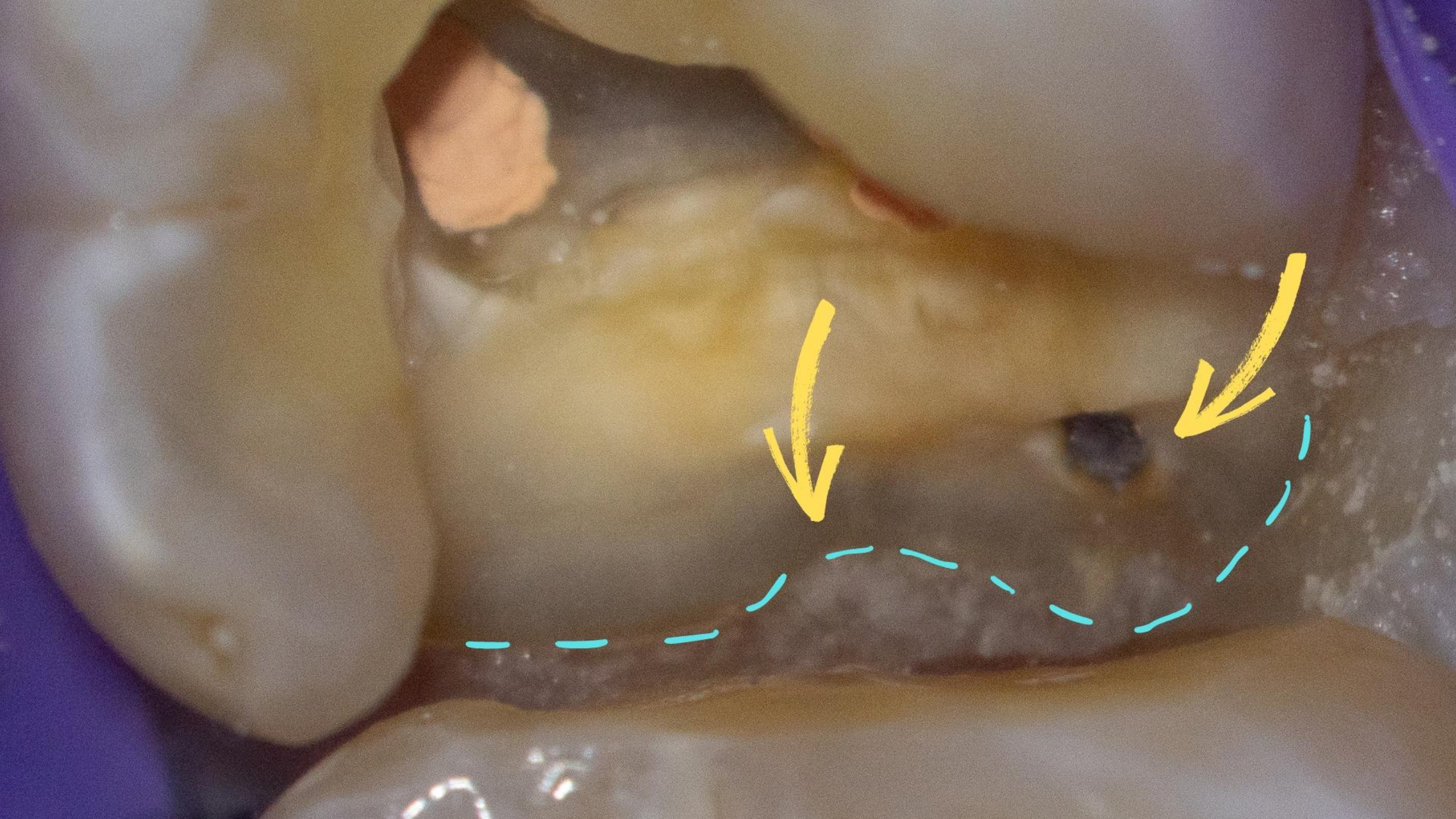




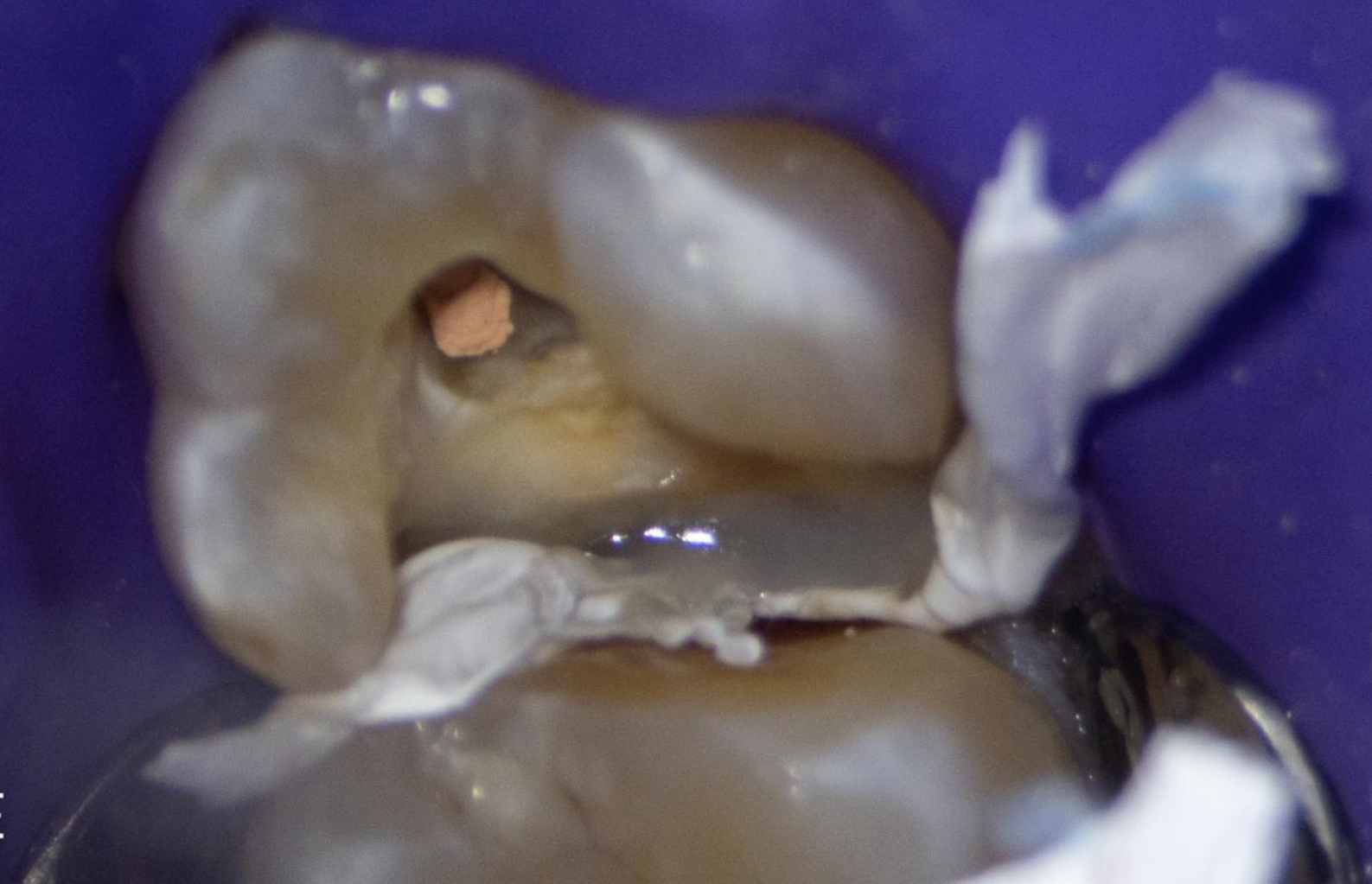


A close-up photograph of a dental crown on a tooth. The crown is light-colored and has a visible orange-colored core or filling material in the center. The crown is set against a blue background, likely a dental tray. The text "DR. R. BUSTAMANTE" is visible in the bottom left corner.

DR. R. BUSTAMANTE



DR. R. BUSTAMANTE



DR. R. BUSTAMANTE



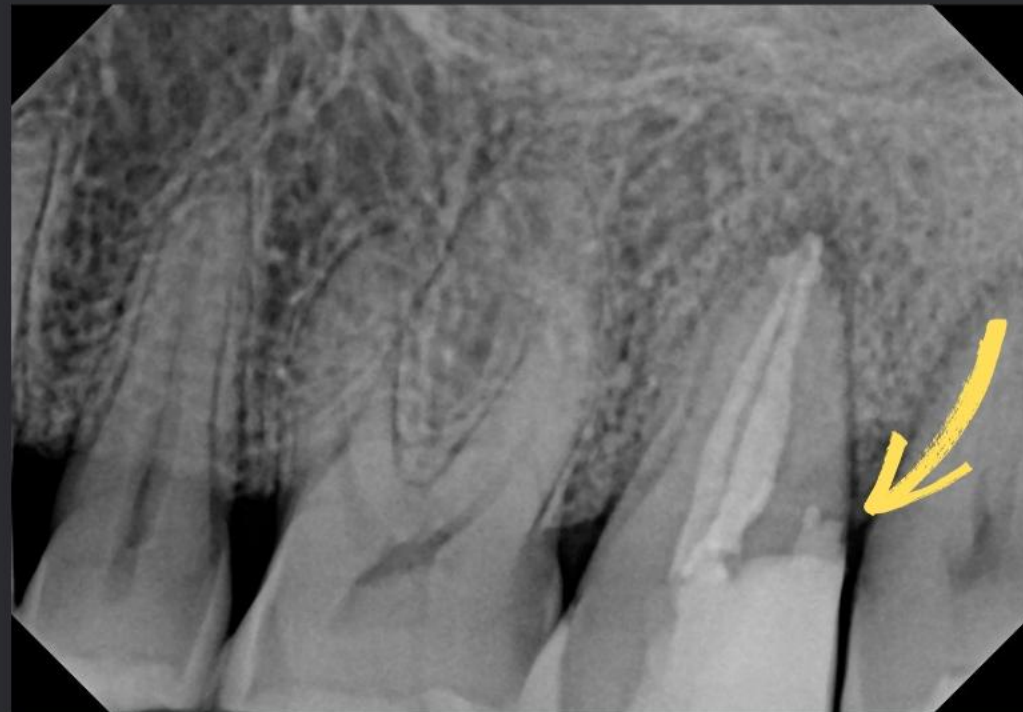


DR. R. BUSTAMANTE

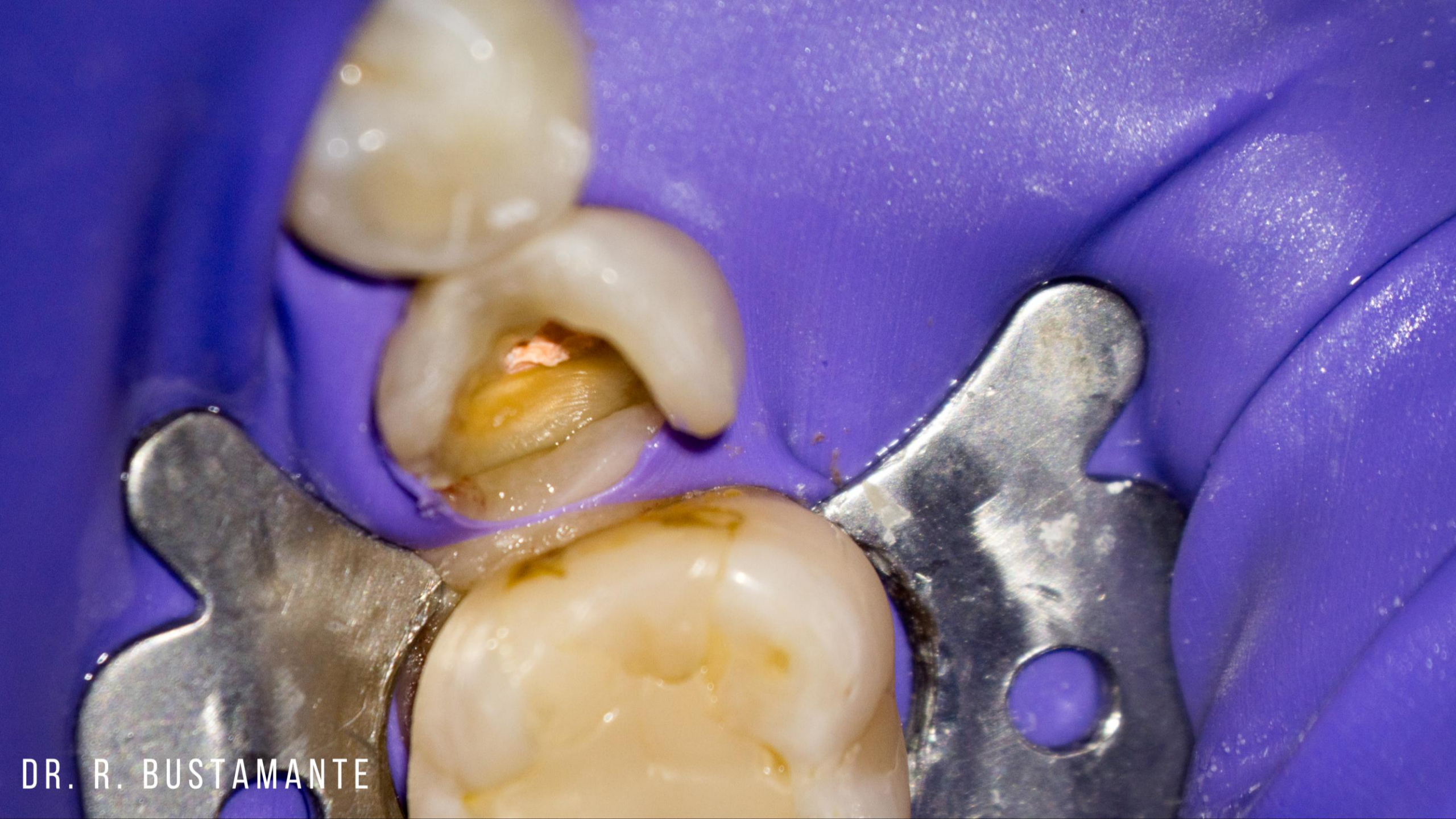
Before



After





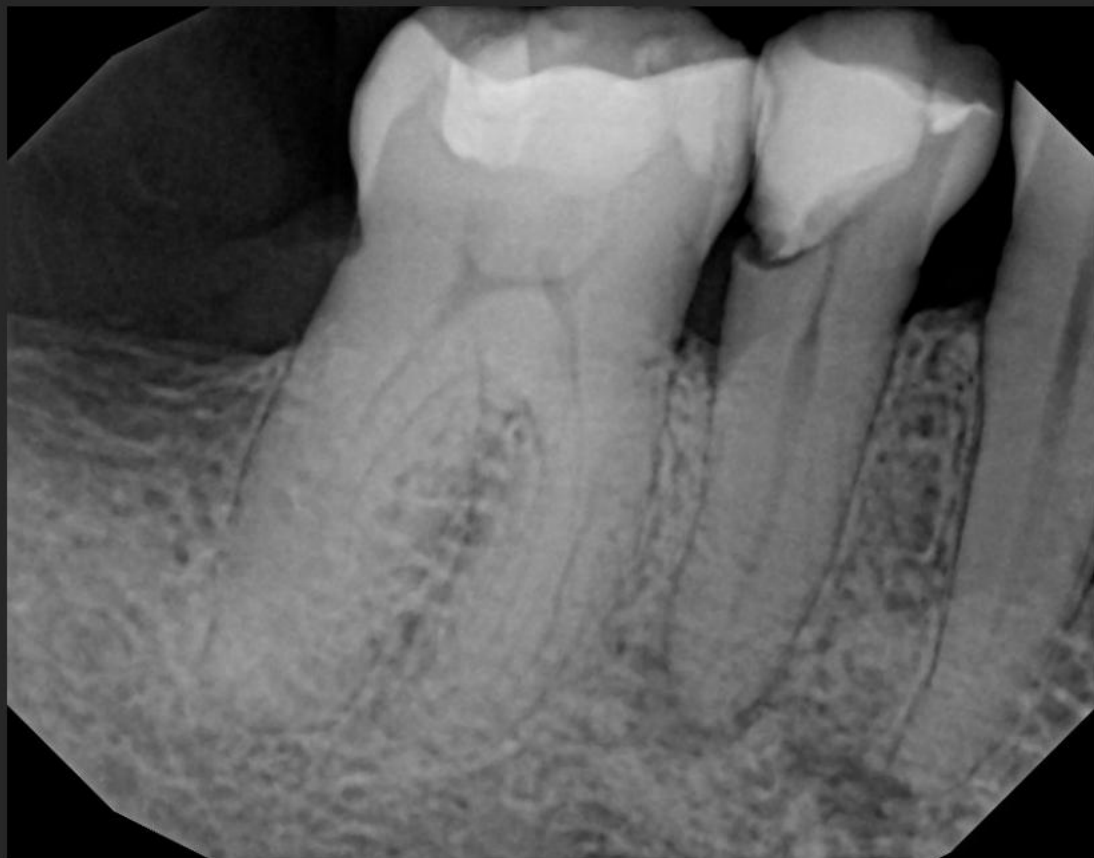






DR. R. BUSTAMANTE

BEFORE



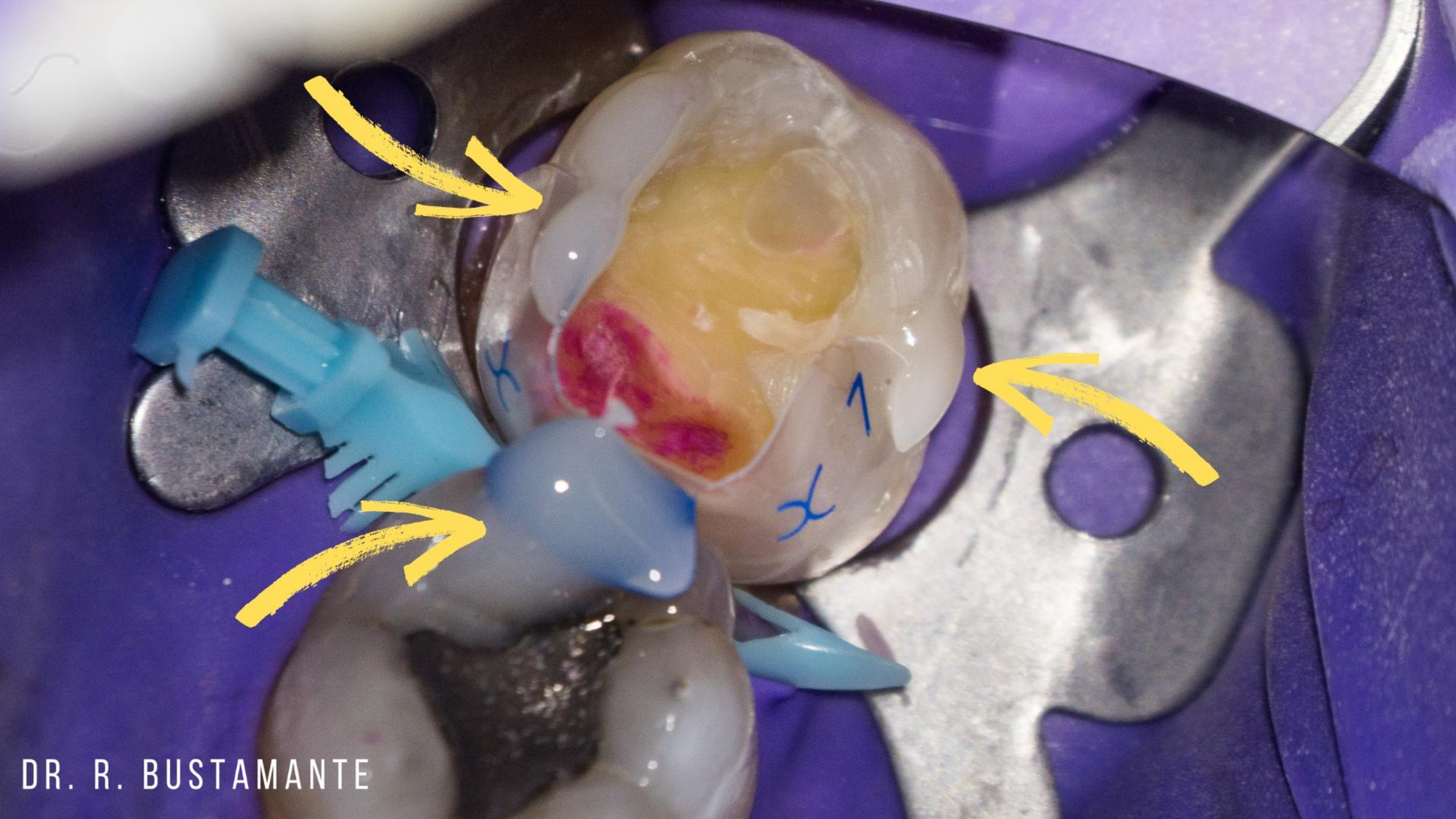
AFTER







DR. R. BUSTAMANTE



DR. R. BUSTAMANTE

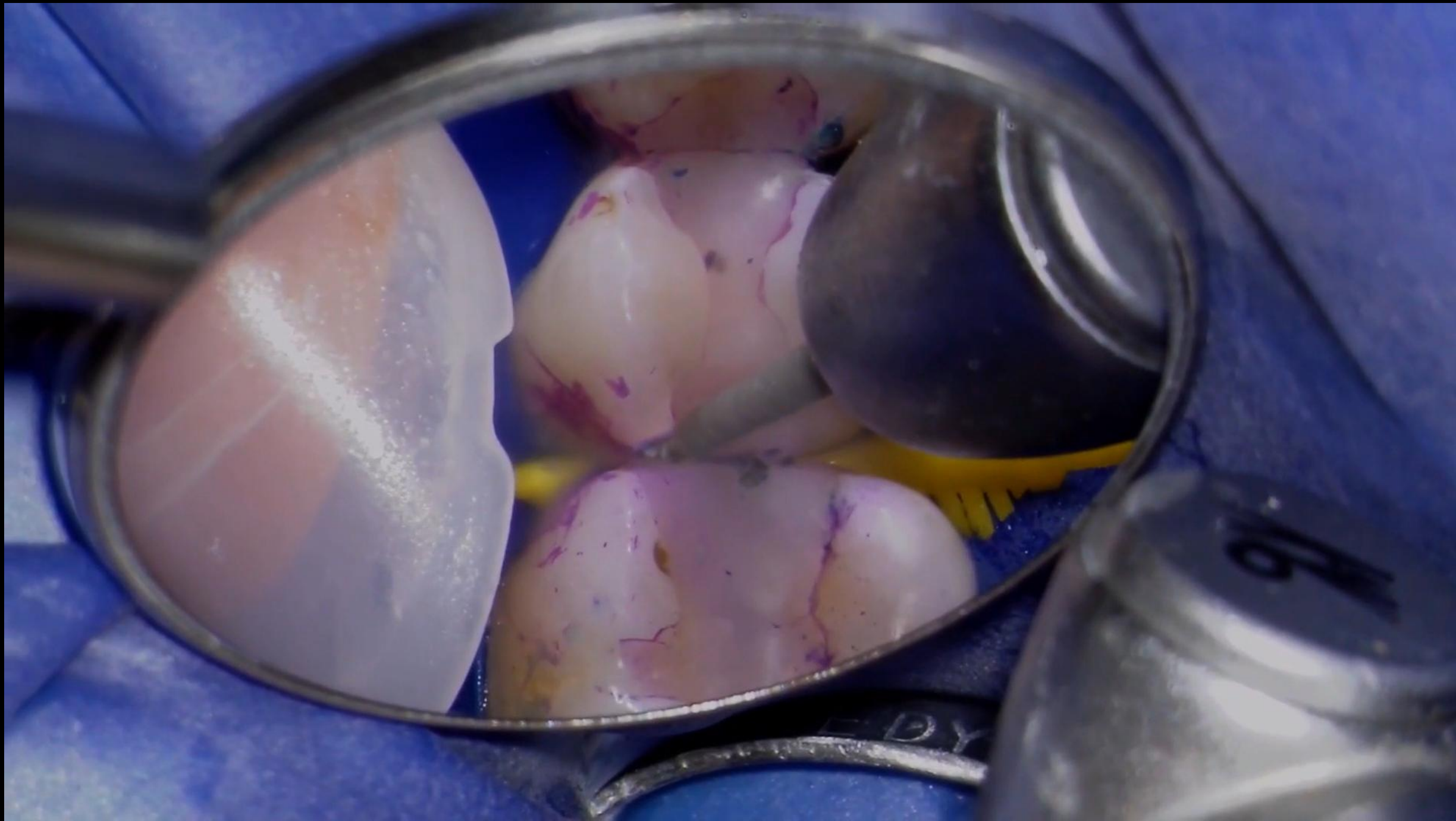
Before



After



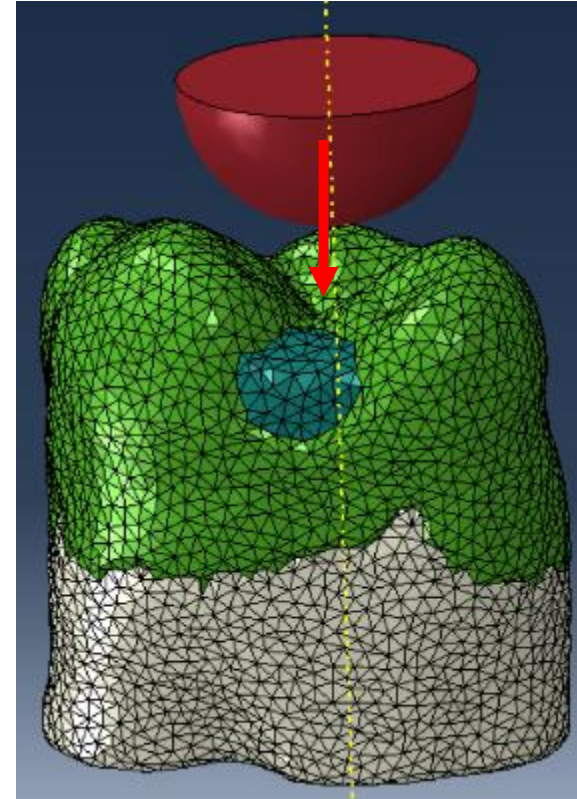
Three-Point Spot Weld plus  
Deep Margin Acquisition (DMA)  
Clinical Video



# Finite Element Analysis of Stresses in Restorations due to Occlusal Loading

## Methods

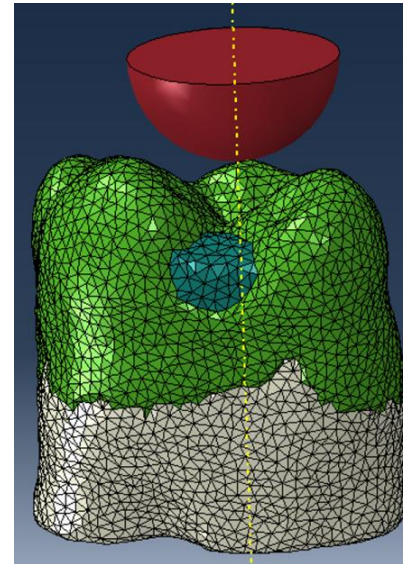
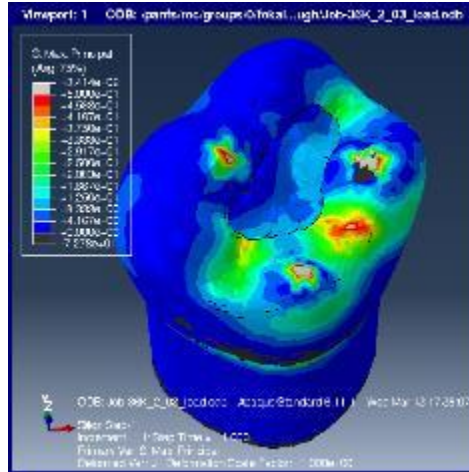
- Occlusal stress simulated by adding a hemisphere as an antagonist to the occlusal surface with downward vertical force (1000N) , resulting in three occlusal areas
- Principal stresses on the restorations and tooth were compared.



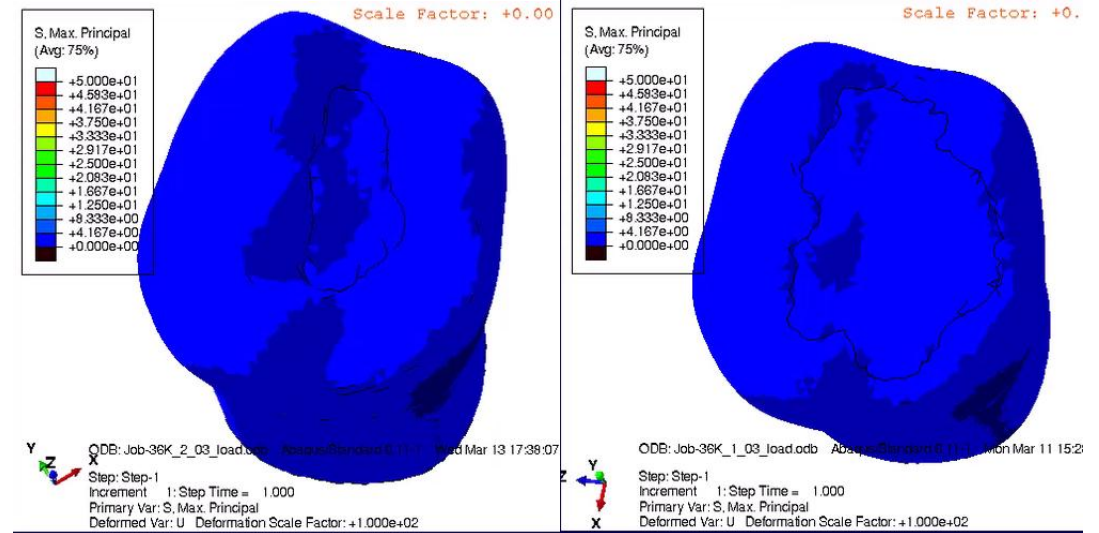
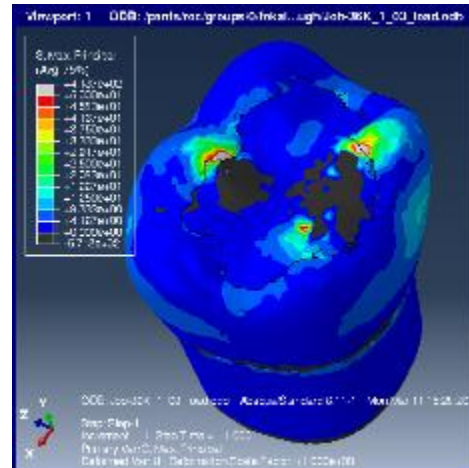
# 3D Finite Element Analysis of Stresses in Class I Restorations due to Occlusal Loading

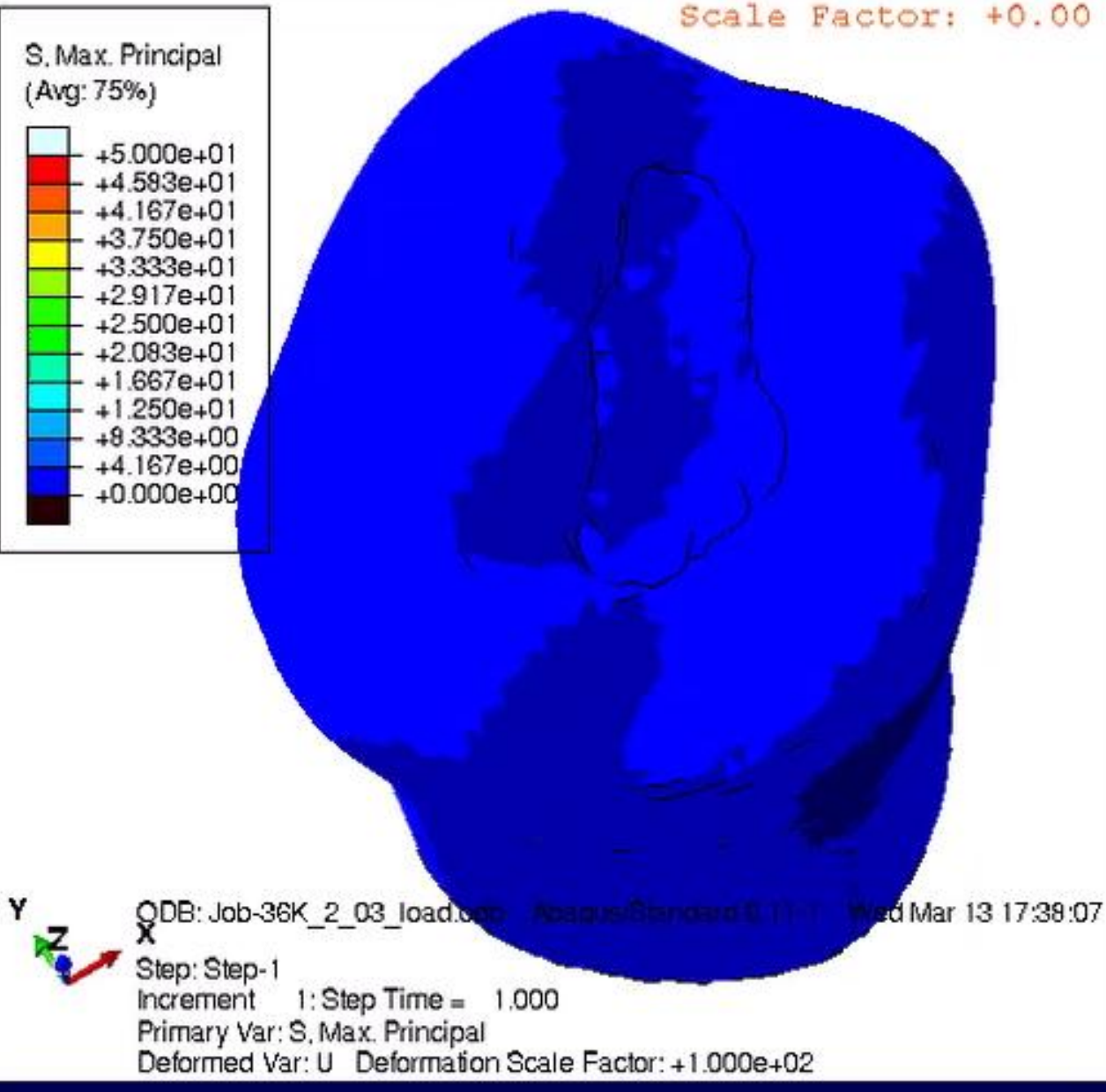
## Max principal stress contours

Black

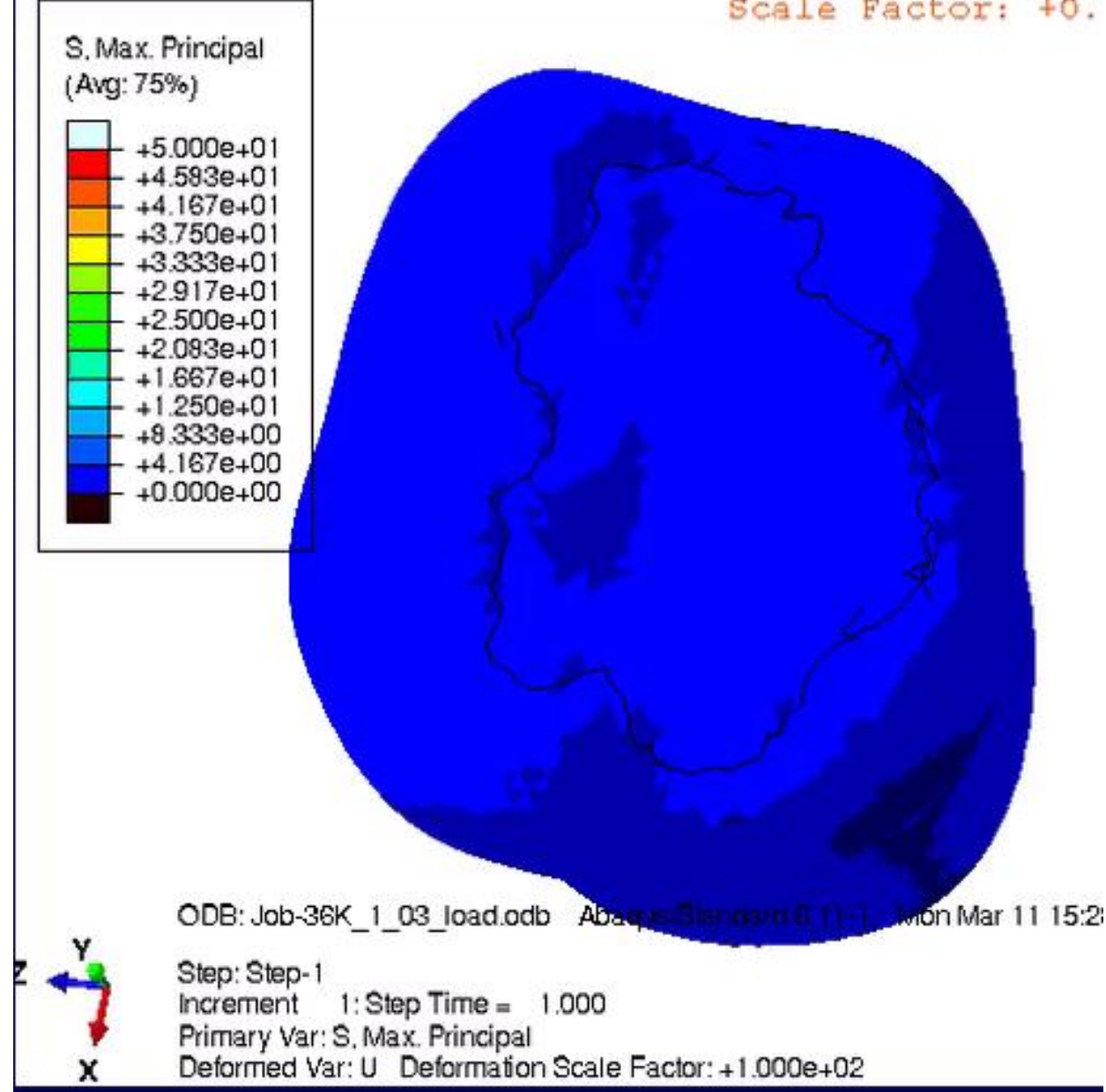


Clark





**Black**



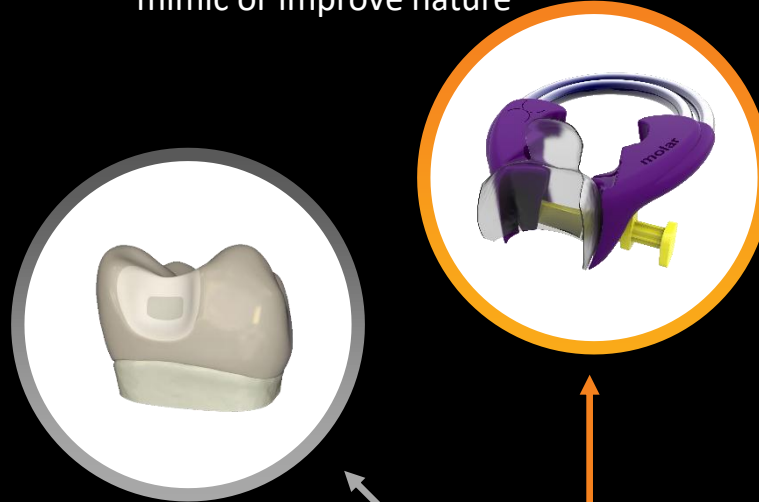
**Clark**



# Modern Method for Composite Restorations

## Bioclear Anatomic Matrices

- Anterior & Posterior Matrices designed to mimic or improve nature



## Injection Mold Composite

- Injection mold warmed Solventum Restorative materials
- Industry leading polish, esthetic, strength & wear



## Rock Star Polish

- 3M™ Sof-Lex™ XT coarse discs for reduction
- “Rock Star” polish with Bioclear Magic Mix & RS Polisher



## Preparation Design

- I.C.E. Infinity edge, Compression based, Enamel driven
- Maximizes enamel involvement by going “around the tooth”



## Biofilm Removal

- Bioclear Blaster removes biofilm before bonding
- Allows bonding to uncut enamel
- Allows infinity edge margins



Systematic restorative protocol for esthetic long-term clinical outcomes

# 1<sup>st</sup> Pillar of Bioclear

Disclosing of Biofilm, then  
Blasting to remove Biofilm plus  
remove Protein Pellicle

# Part 1 | Biofilm Removal

If you were going to paint a wall that looked like this....



...you'd prepare the surface to receive the paint and have it stay long-term.

We need to do the same with teeth...



Clean teeth surfaces allow for

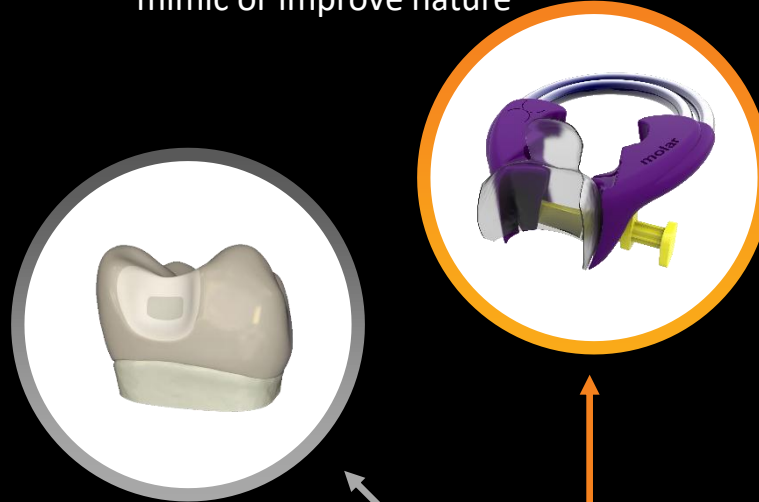
- Better adhesion
- Difference between “Flash” and an infinity edge at the Tooth Restoration Interface

Does 37% phosphoric acid  
(gel etchant)  
remove biofilm?

# Modern Method for Composite Restorations

## Bioclear Anatomic Matrices

- Anterior & Posterior Matrices designed to mimic or improve nature



## Injection Mold Composite

- Injection mold warmed Solventum Restorative materials
- Industry leading polish, esthetic, strength & wear



## Preparation Design

- I.C.E. Infinity edge, Compression based, Enamel driven
- Maximizes enamel involvement by going "around the tooth"



## Biofilm Removal

- Bioclear Blaster removes biofilm before bonding
- Allows bonding to uncut enamel
- Allows infinity edge margins



Systematic restorative protocol for esthetic long-term clinical outcomes

## Rock Star Polish

- 3M™ Sof-Lex™ XT coarse discs for reduction
- "Rock Star" polish with Bioclear Magic Mix & RS Polisher



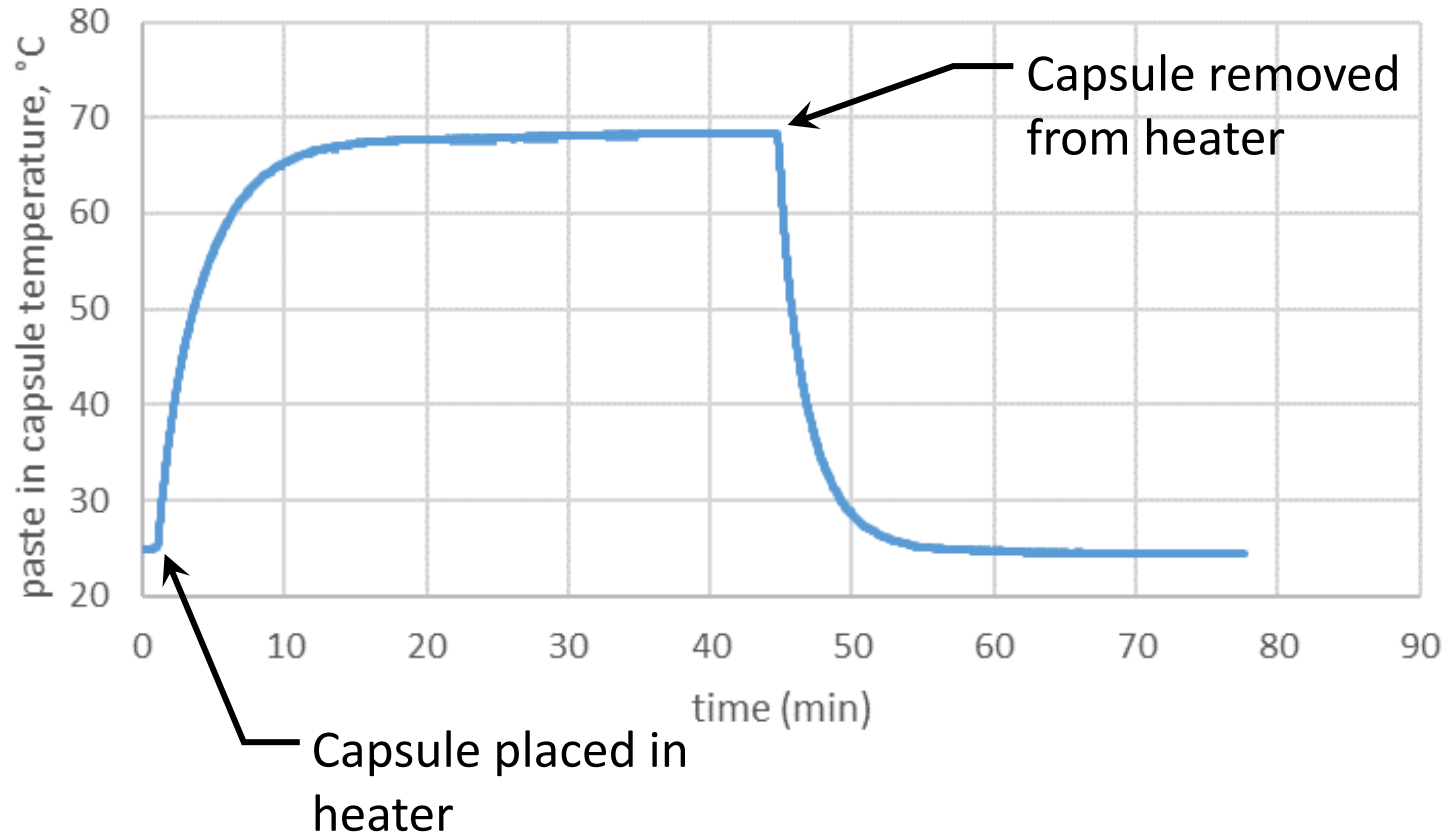
Composite  
Heating: Trend  
or the future of  
placing the  
material?

Composite Heater pre-set  
to 155° F



# Overall

Warming & Cooling of Capsules in BioClear HeatSync



- Overall experiment
- Piston removed from capsule
- Thermocouple inserted into paste in capsule
- Capsule placed in capsule gun
- Capsule & gun placed in heater at  $t = 0$  min
- Capsule & gun removed from heater at  $t = 45$  min
- Allowed to cool in room temperature air

# Conclusions

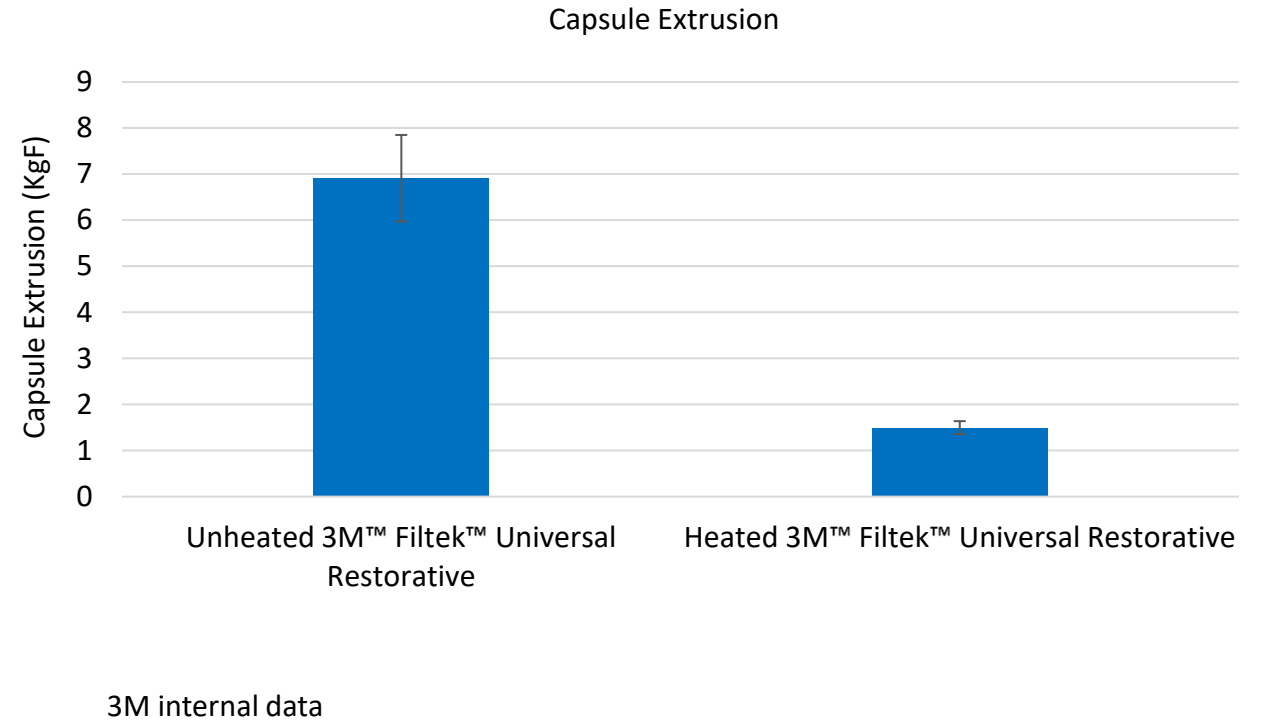
- Preheating a syringe of Filtek™ Bulk Fill Posterior to 60 °C for twenty 1 hour increments does
  - NOT harm mechanical properties such as
    - Diametral tensile strength
    - Flexural strength
  - NOT harm cure properties such as
    - Depth of cure
    - Cusp deflection (polymerization shrinkage stress)
  - NOT harm esthetic properties such as
    - Color and opacity
    - Polish retention

From: Does Preheating a Dental Composite Degrade its Post-Cure Properties?  
T.D. Dunbar et al., *J Dent Res* 95 (Spec Iss A):952, 2016 ([www.iadr.org](http://www.iadr.org)).

# Composite warming

## Why warm?

- Handling preference
- Lowers capsule extrusion force by 75-80%



14% of dentists survey stated they use some type of device to warm their composite prior to placement.

3M Market Research, January, 2018 N=304 Dentists (US, Russia, UK, Brazil, Germany)

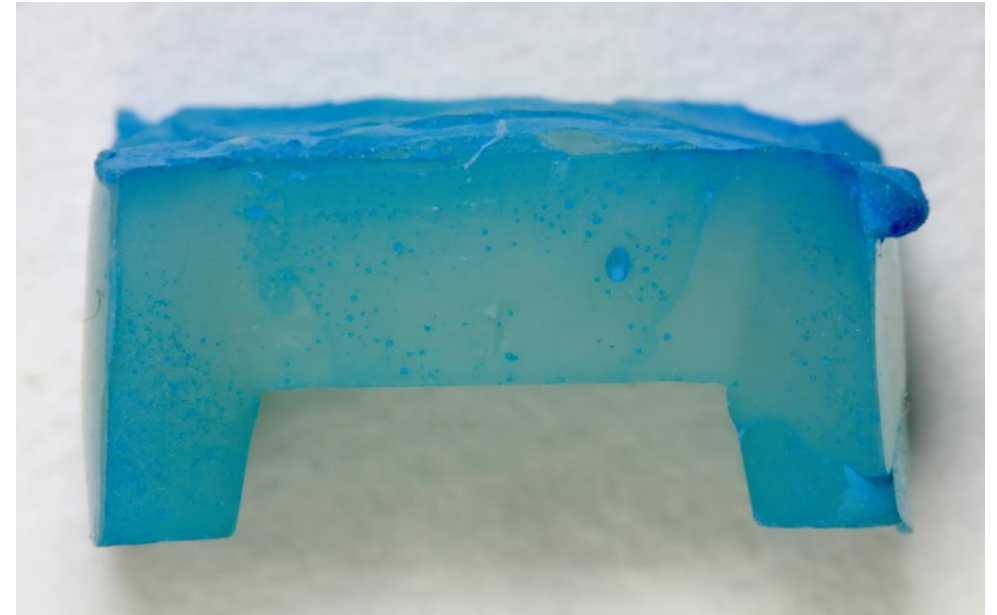
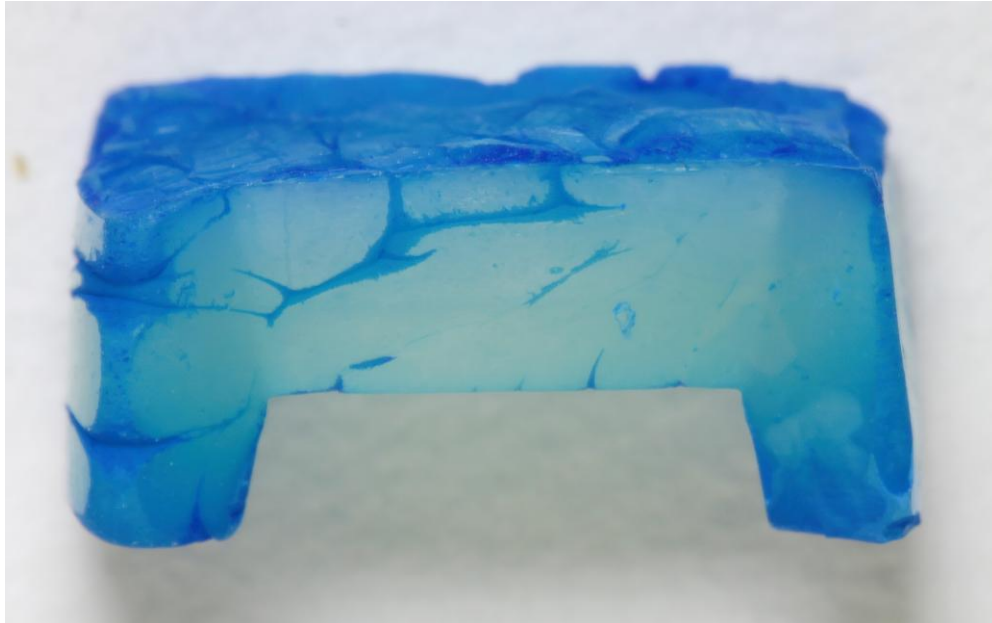
Let's go back to 2007...

“Dr. Clark, aren't we supposed to layer everything?”

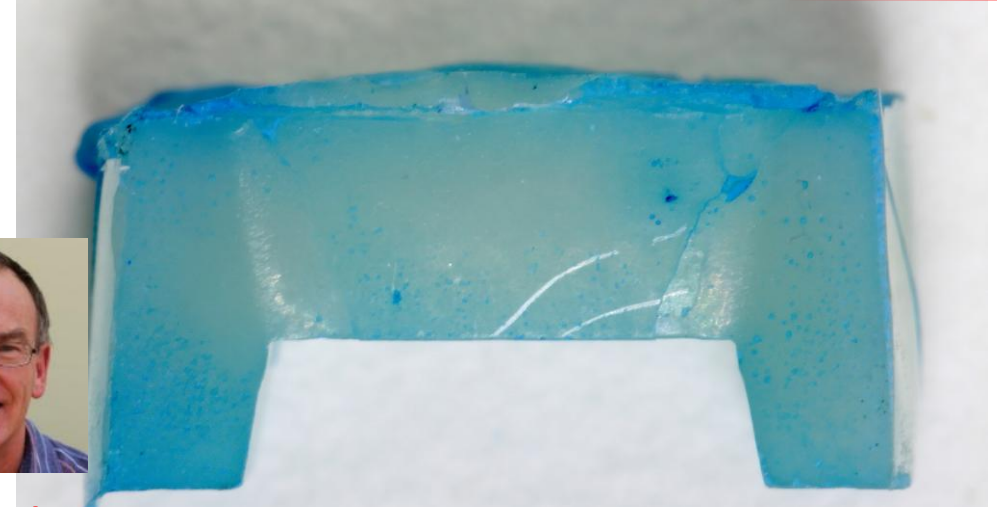
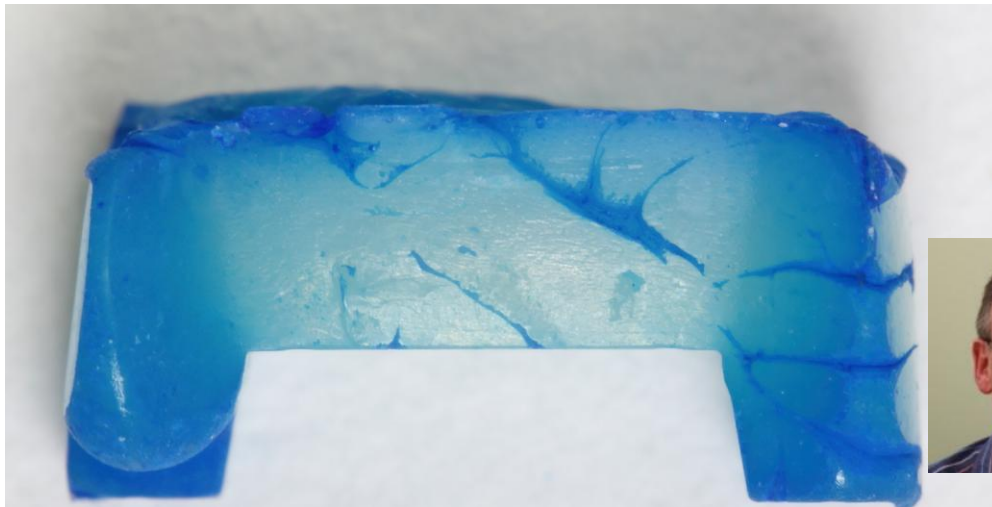
Hand-Packed and Layered

Monolithic and Injection-Molded

Dr. #1



Dr. #2



Courtesy Dr. Richard Price

A microscopic image of a tooth with a filling. The filling is a light-colored, textured material. There is a dark spot on the tooth, likely a cavity or a microleakage. The background is a light blue color.

Is layering a good thing or a bad thing?

Does layering relieve stress and reduce microleakage? **NO**

# Studies do not support layering to mitigate polymerization stress

---

---

- ◆ Does Incremental Filling Technique Reduce Polymerization Shrinkage Stresses?  
Versluis A, et.al., J Dent Res March 1996; 75(3): 871-878
- ◆ An In Vitro Study of the Effect of Restorative Technique on Marginal Leakage in Posterior Composites  
Neiva IF, et.al.; Oper Dent 1998, 23:282-289
- ◆ Microleakage and adaptation of Class II packable resin-based composites using incremental or bulk filling techniques  
Gallo JR, et.al., Am J Dent 2000; 13: 205-208
- ◆ The Effects of Adhesive Thickness on Polymerization Contraction Stress of Composite  
Choi KK, et.al., J Dent Res 2000; 79(3): 812-817
- ◆ Microleakage of Posterior Packable Resin Composites with and without flowable liners  
Leevailoj C, et.al., Oper Dent 2001; 26: 302-307
- ◆ Marginal adaptation of Class II resin composite restorations using incremental and bulk placement techniques: and ESEM study  
Idriss S, et.al., J Oral Rehab 2003; 30: 1000-1007
- ◆ A reappraisal of the incremental packing technique for light cured composite resins  
Rees JS, et.al., J Oral Rehab 2004; 31: 81-94
- ◆ Cuspal deflection and depth of cure in resin-based composite restorations filled by using bulk, incremental and transtooth-illumination techniques  
Carlos E. Campodonic, DDS 2011, October 2011 JADA



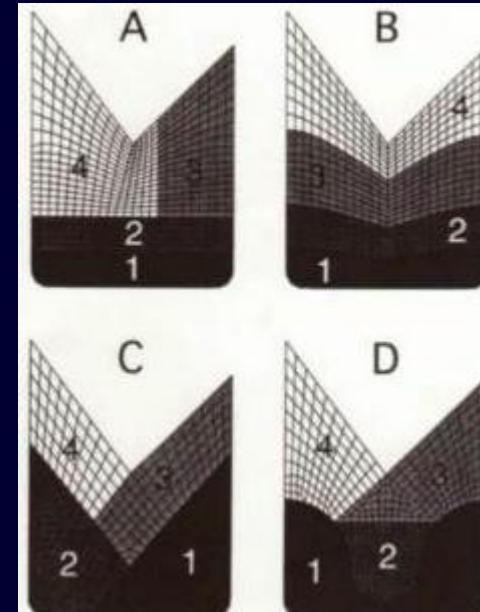
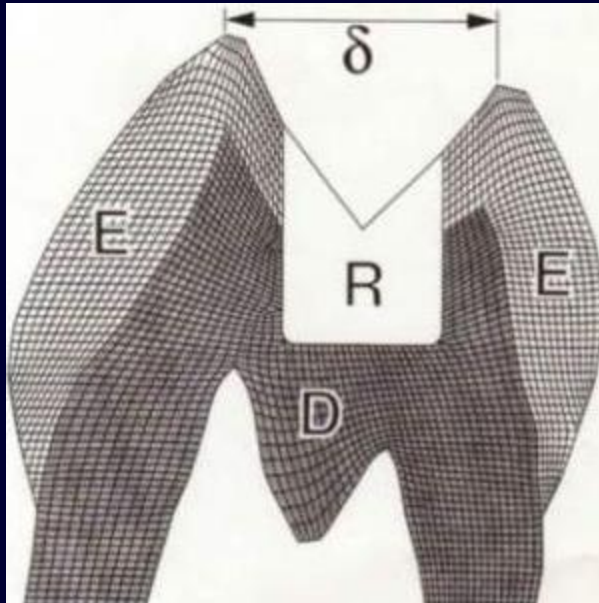
## Does an incremental filling technique reduce polymerization shrinkage stresses?

Versluis A, Douglas WH, Cross M, Sakaguchi RL.

Minnesota Dental Research Center for Biomaterials and Biomechanics, University of Minnesota Minneapolis 55455, USA.

### Abstract

It is widely accepted that volumetric contraction and solidification during the polymerization process of restorative composites in combination with bonding to the hard tissue result in stress transfer and inward deformation of the cavity walls of the restored tooth. Deformation of the walls decreases the size of the cavity during the filling process. This fact has a profound influence on the assumption—raised and discussed in this paper—that an incremental filling technique reduces the stress effect of composite shrinkage on the tooth. Developing stress fields for different incremental filling techniques are simulated in a numerical analysis. The analysis shows that, in a restoration with a well-established bond to the tooth—as is generally desired—incremental filling techniques increase the deformation of the restored tooth. The increase is caused by the incremental deformation of the preparation, which effectively decreases the total amount of composite needed to fill the cavity. This leads to a higher-stressed tooth-composite structure. The study also shows that the assessment of intercuspal distance measurements as well as simplifications based on generalization of the shrinkage stress state cannot be sufficient to characterize the effect of polymerization shrinkage in a tooth-restoration complex. Incremental filling methods may need to be retained for reasons such as densification, adaptation, thoroughness of cure, and bond formation. However, it is very difficult to prove that incrementalization needs to be retained because of the abatement of shrinkage effects.





# Step by Step Guide for Injection Molded Class II



# Case by Dr Ayman Mohammed















# Case by Dr Ahmed Al Jaber























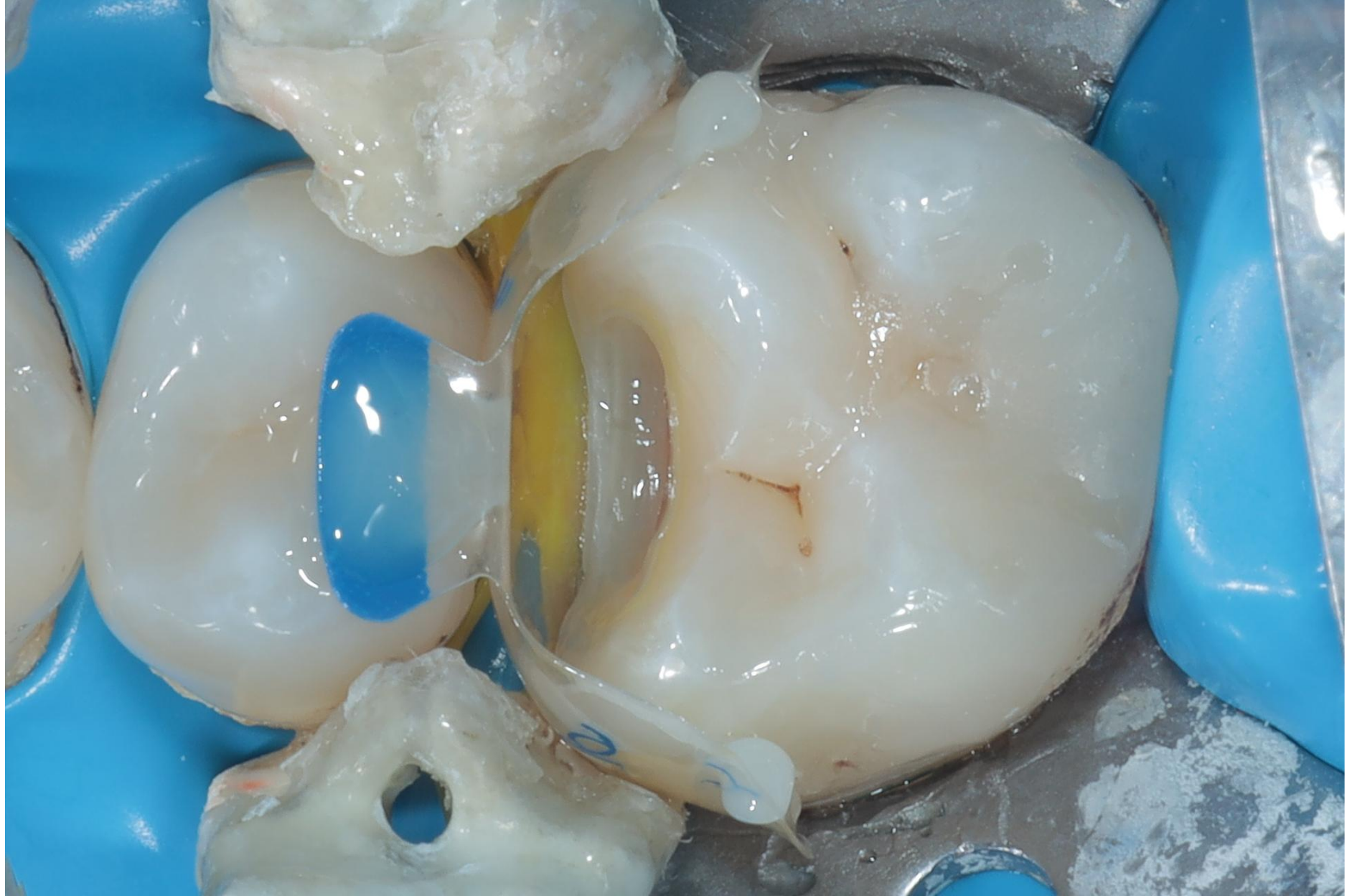






























Are all  
Separators  
Equal?

**NO!**



Stretched to 20mm ONCE!!!





And now most of  
the power is  
permanently lost

Once the yield of the metal/shape is reached, the  
metal undergoes plastic deformation

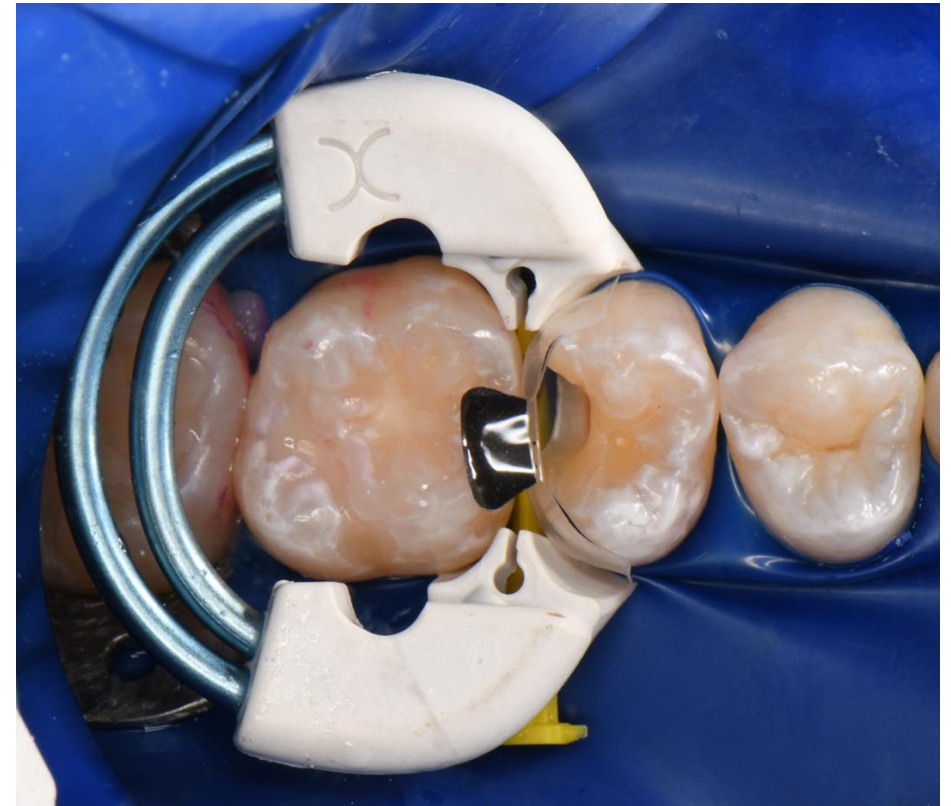
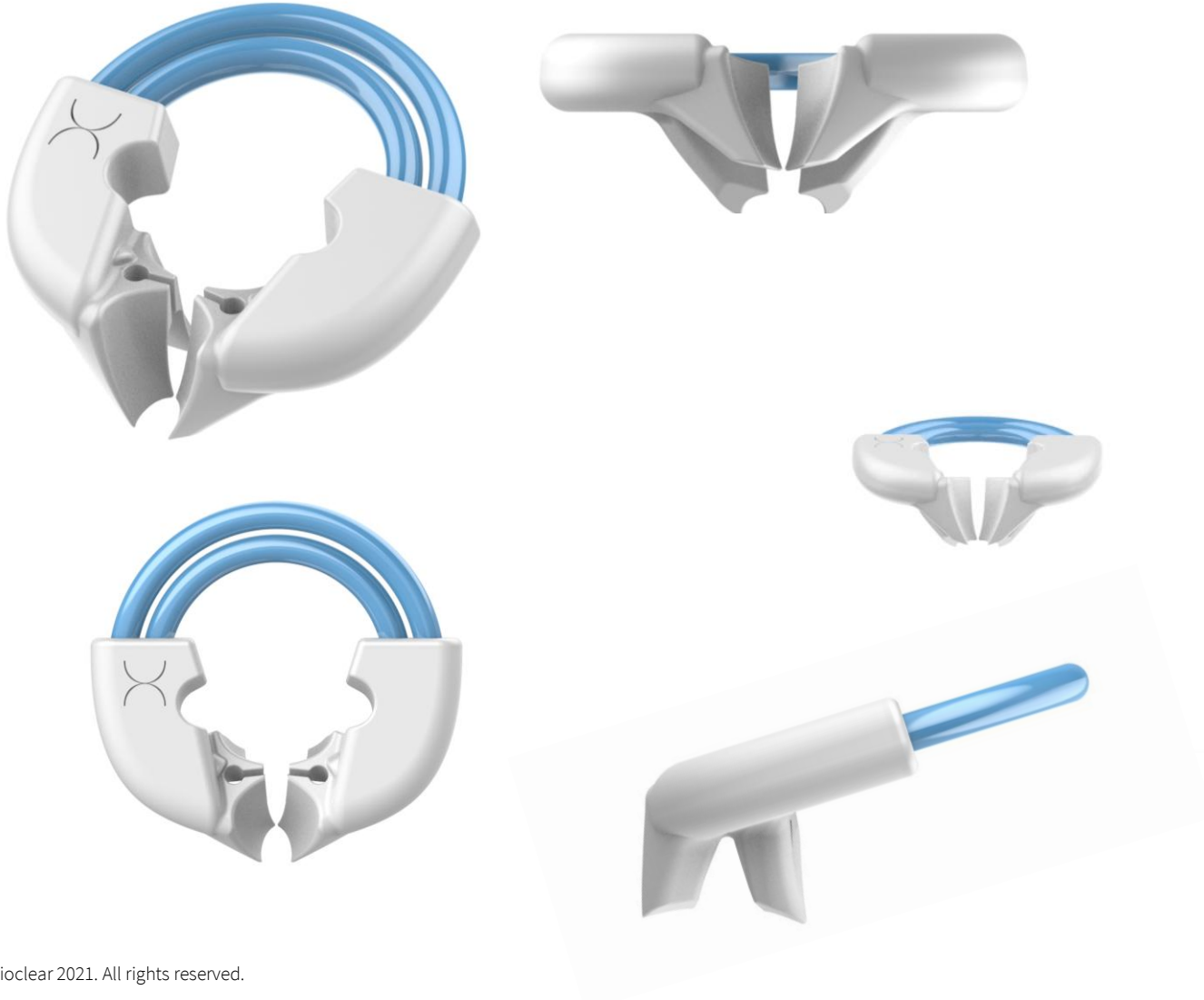
Stretched to 20mm Twenty Times



Stretched to 20mm Twenty Times



# TwinRing Universal





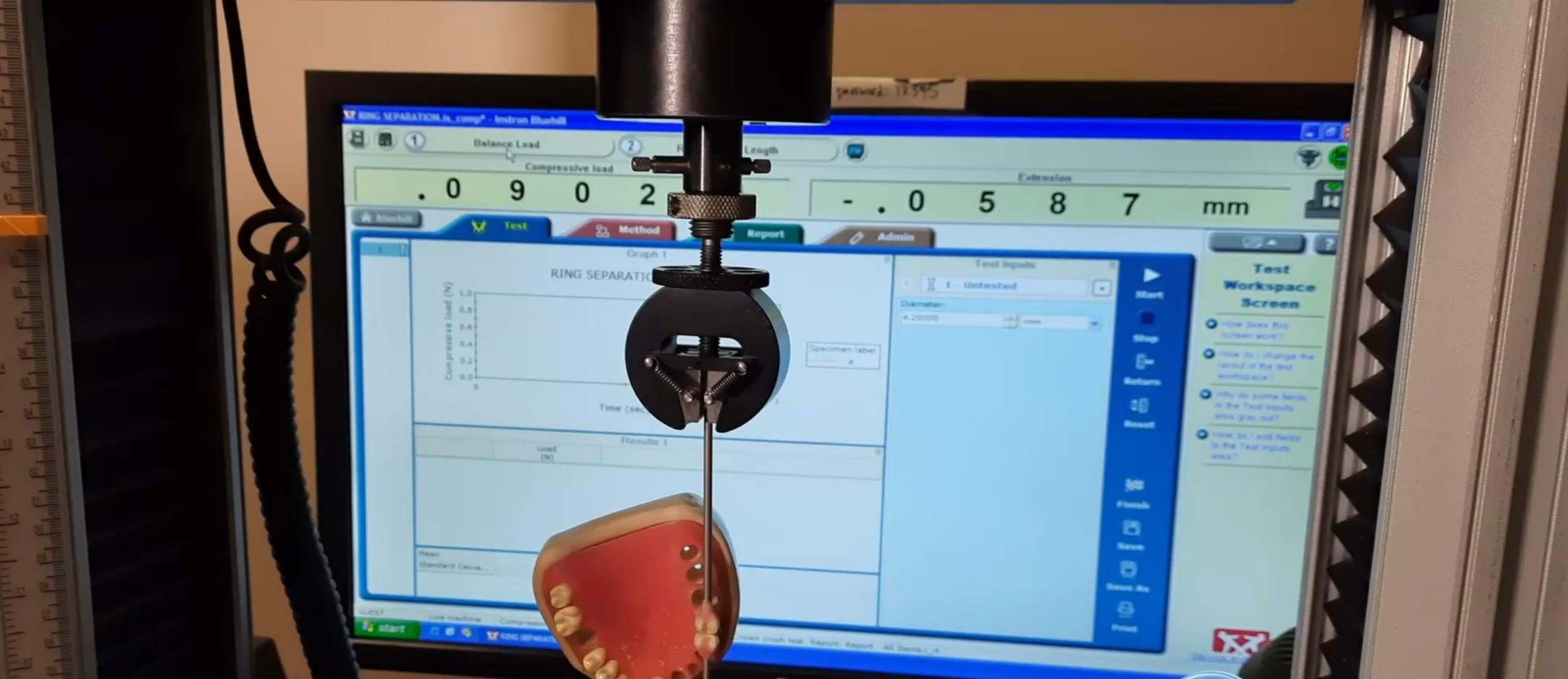
## How do we win the *Snug Contact Game?*

- Power
- Strategy
- Technique



## How do we win the *Snug Contact Game?*

- Power
- Strategy
- Technique



### Nate Lawson DMD PhD

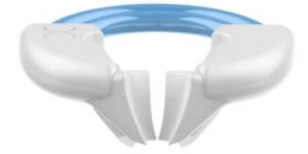
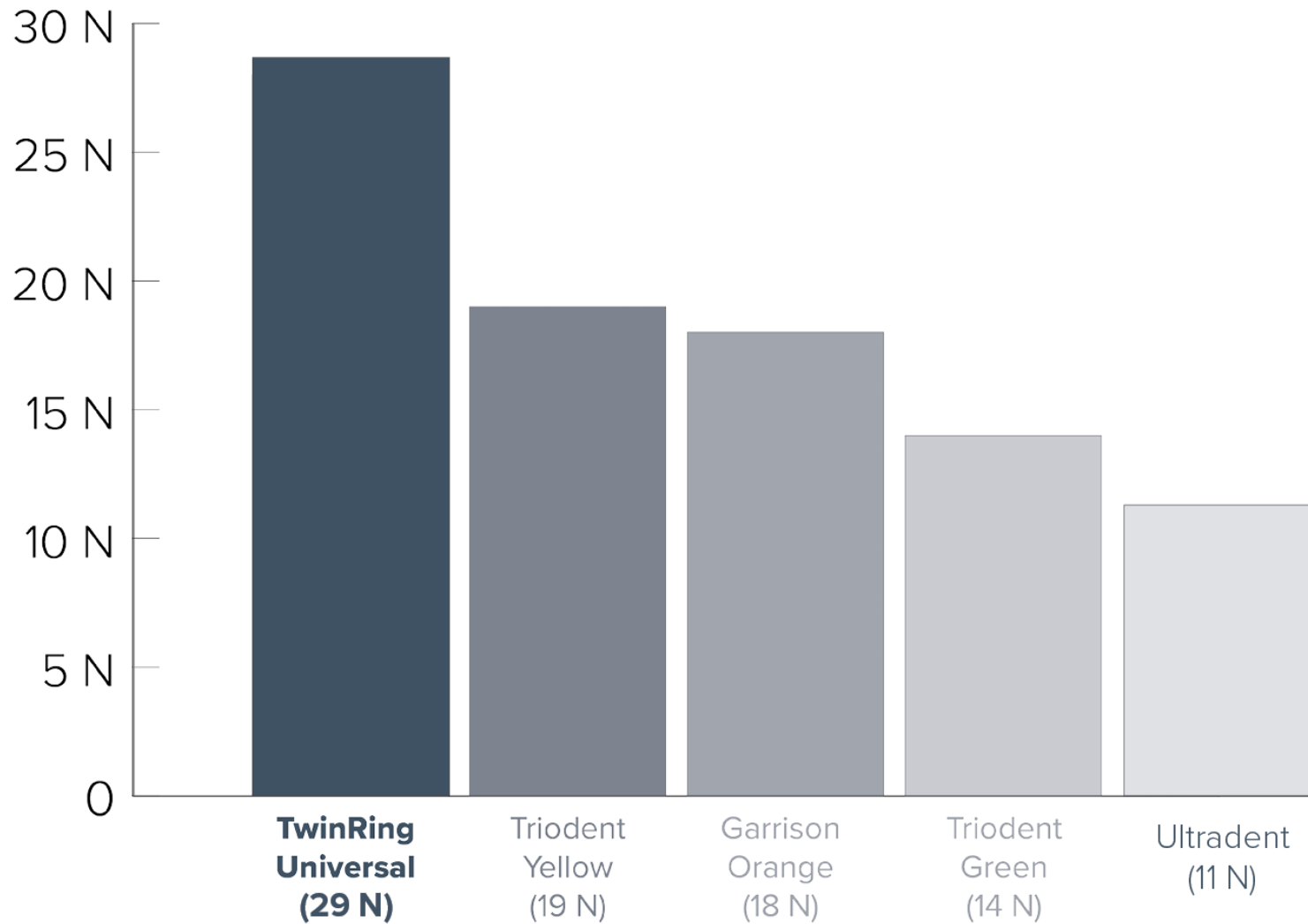
Director of the Division of Biomaterials and Pranit Bora. BDS, MDS.

Resident, Division of Biomaterials UAB School of Dentistry



TwinRing Universal  
28 N

# TwinRing Universal Instron Comparison



Note: Rings tested are not new and some rings stretch out quickly and lose up to half of their power after multiple uses. 1N = 1kg (m/s/s)

 BIOCLEAR

# Bioclear Matrices - Posterior





# EVOLVE --- MATRIX

## Premolar



## Molar



EVOLVE  
MATRIX

# Premolar Evolve: Width & Profile

- Evolve premolar matrices come in one width and profile – Black – to fit a variety of premolar tooth shapes

## BLACK EVOLVE

Designed with an aggressively rounded emergence profile. Shaped specifically for premolar teeth, these matrices can be used anywhere you would typically use a Biofit matrix or BT matrices on premolars.

Tip: Rotate the matrix into place.



Premolar Normal Width

# Black Premolar Evolve

× BIOCLEAR



5 Sizes

5mm

6mm

7mm

8mm

10mm

- Curved profile
- Normal width for a premolar



5 Sizes

5mm

6mm

7mm

8mm

9mm

- Curved profile
- Normal width

# Molar Evolve: Width & Profile

- Evolve matrices come in three widths and profiles – Blue, Orange, and Pink – to fit a variety of posterior tooth shapes

## BLUE EVOLVE

Designed with an aggressively rounded emergence profile and an average width. Blue Evolve is suitable for the majority of posterior cases.

Tip: Rotate the matrix into place.



Normal width

## ORANGE EVOLVE

Features a flatter emergence profile than the Blue Evolve. Orange Evolve is perfect for patients with average-sized molars where the tooth is too flat for the Blue Evolve

Tip: Use the Orange Evolve if the Blue Evolve inverts



Wide Molar



3 Sizes

6mm

7mm

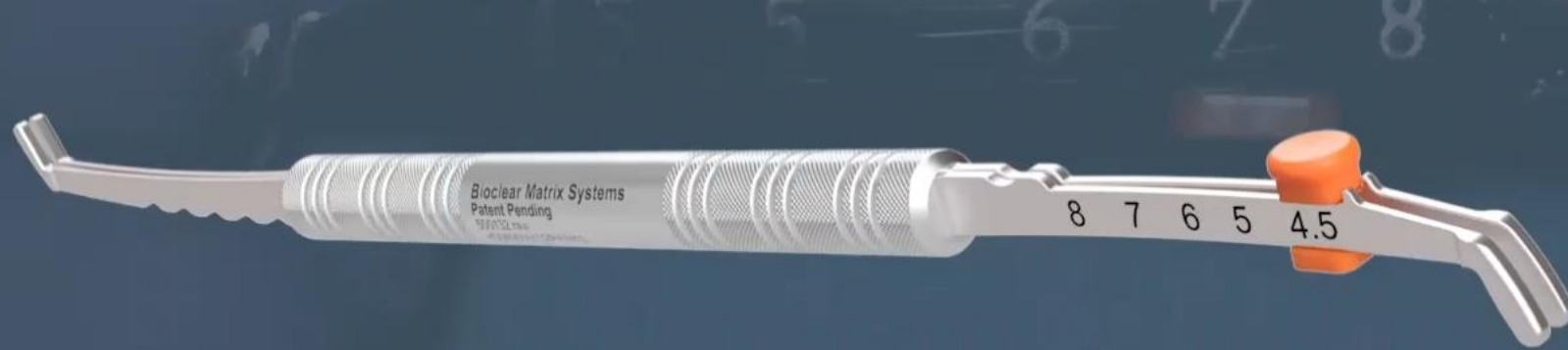
9mm

- Curved/straight profile
- Wider width

 BIOCLEAR

# The Adjustable Push-Pull Instrument

*for Ideal Contacts*



**EVOLVE MATRIX SYSTEM**

# The slip-off test

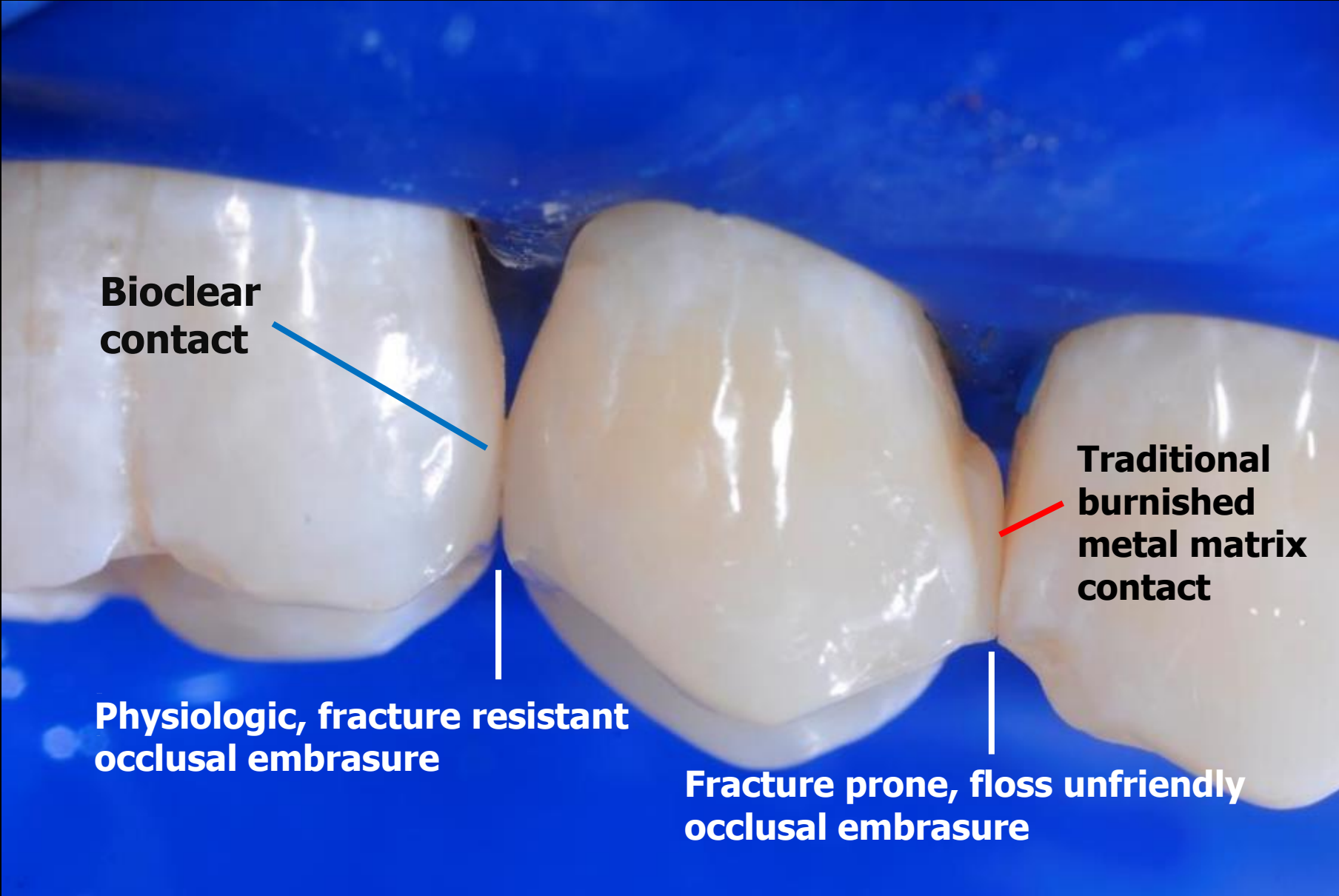


# Let's compare old vs. new

Traditional box prep restoration with staining margins and burnished mediocre shape.



Bioclear restoration with Evolve Matrix, Twin Ring Universal, and Diamond Wedge combined with an infinity edge.



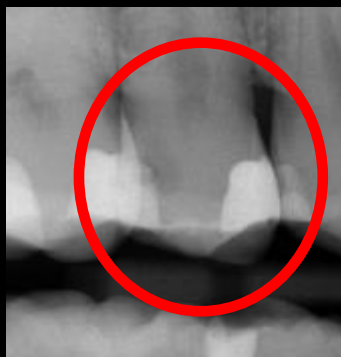
**Bioclear  
contact**

**Traditional  
burnished  
metal matrix  
contact**

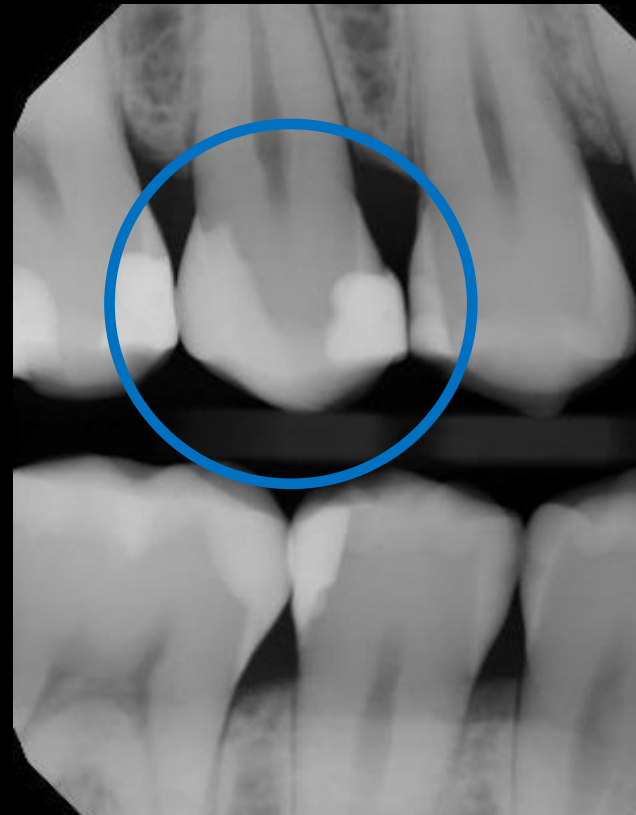
**Physiologic, fracture resistant  
occlusal embrasure**

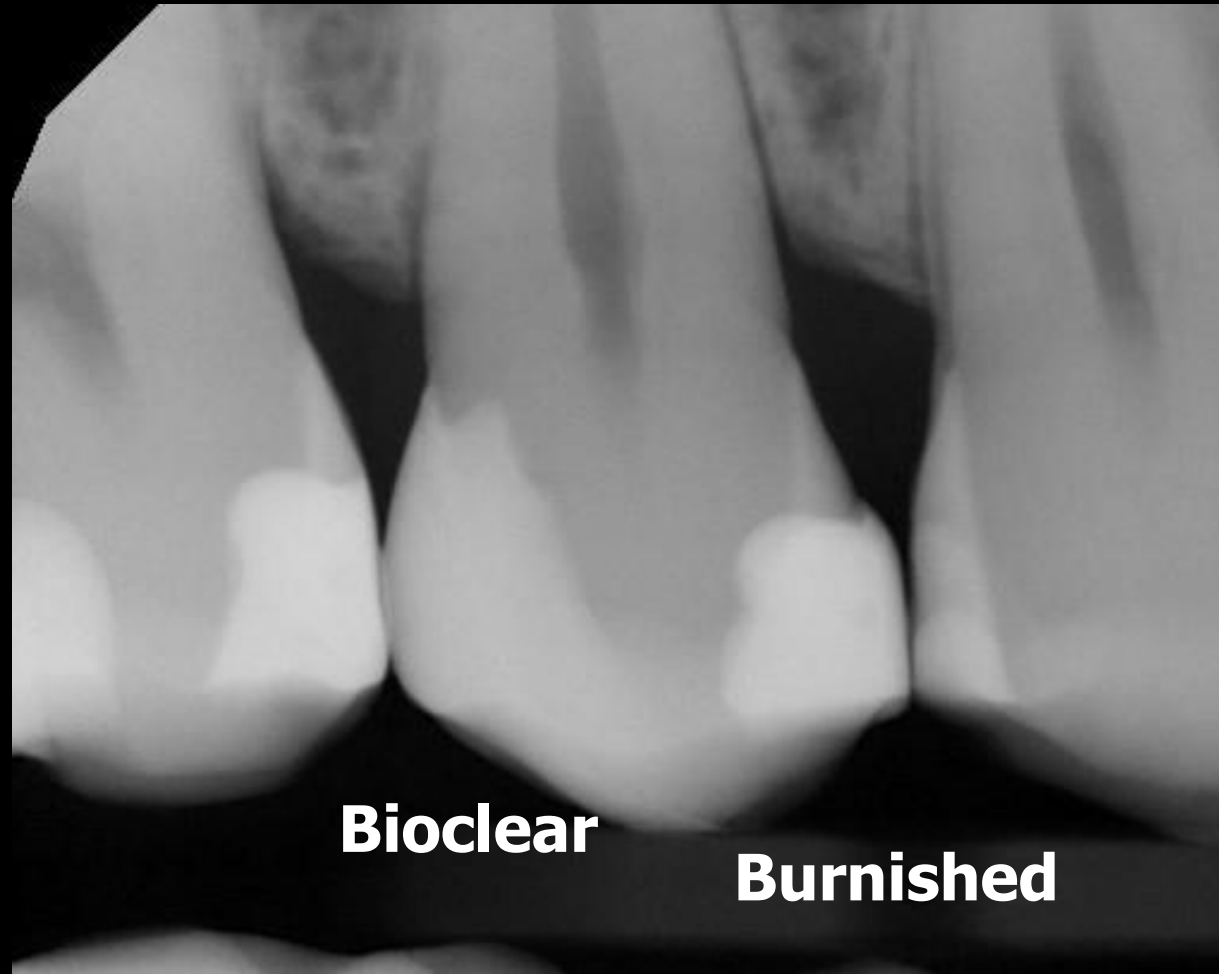
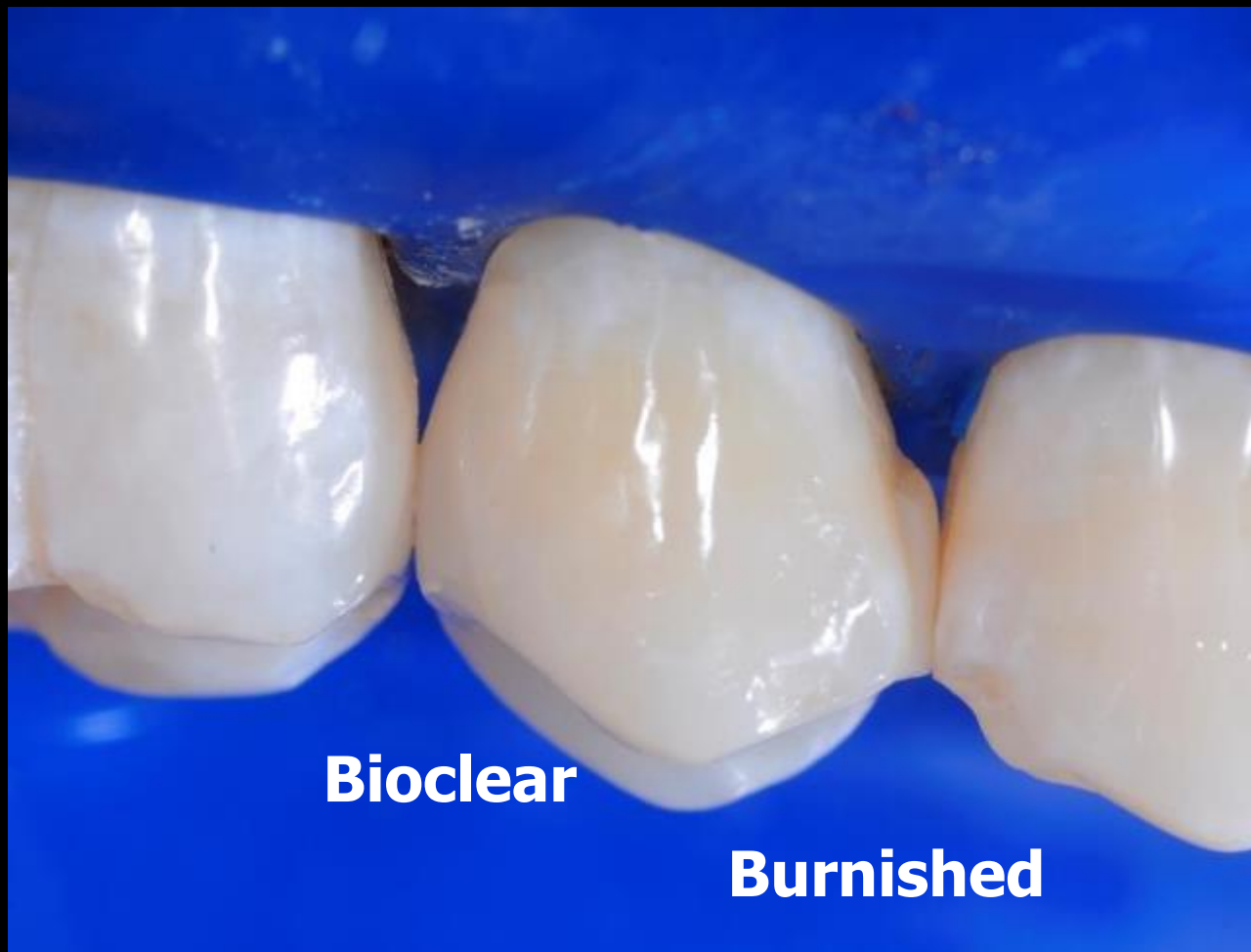
**Fracture prone, floss unfriendly  
occlusal embrasure**

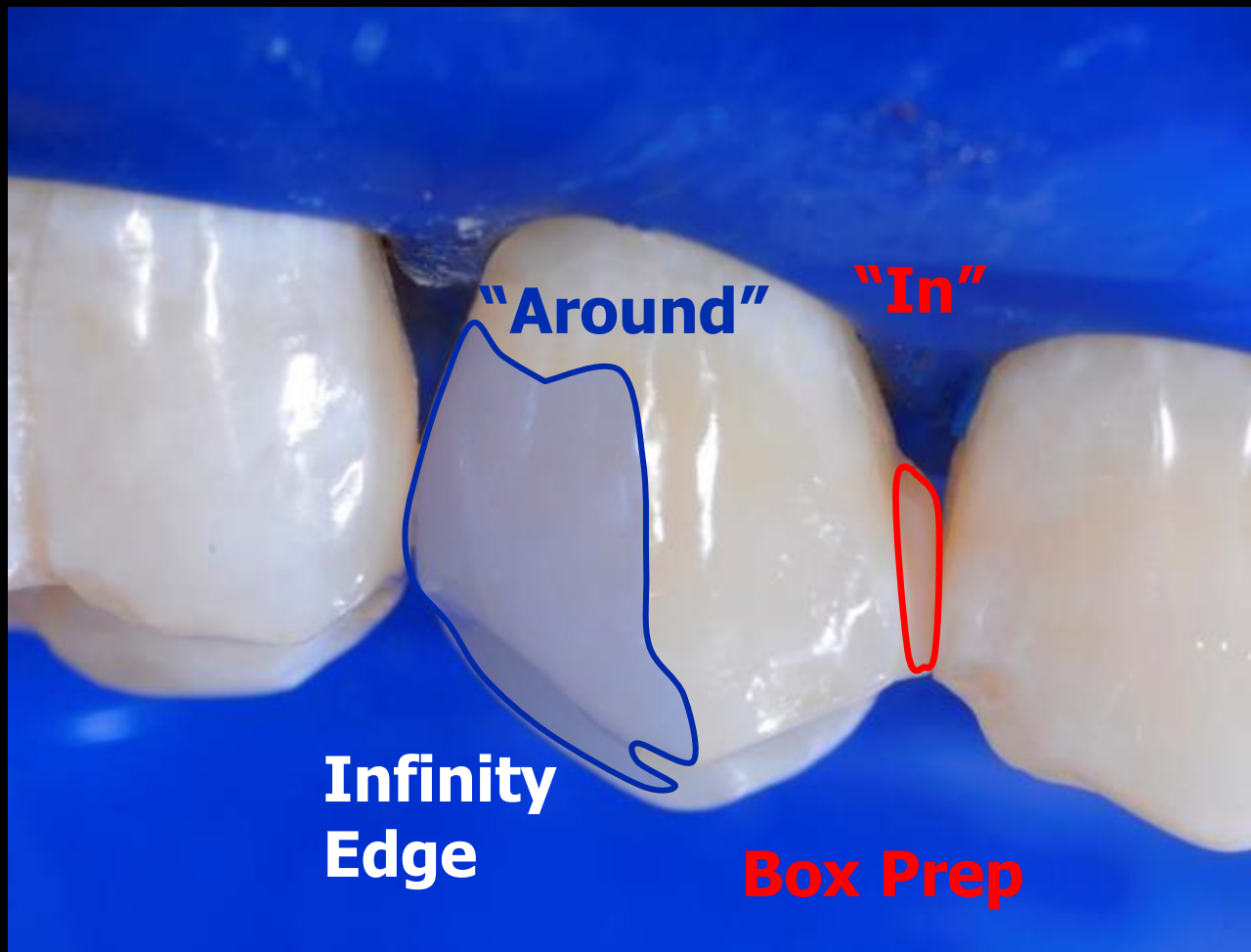
## Pre-Operative Radiographs



## 1 Year Post-Operative







What's my  
reference?



9

8

7

6

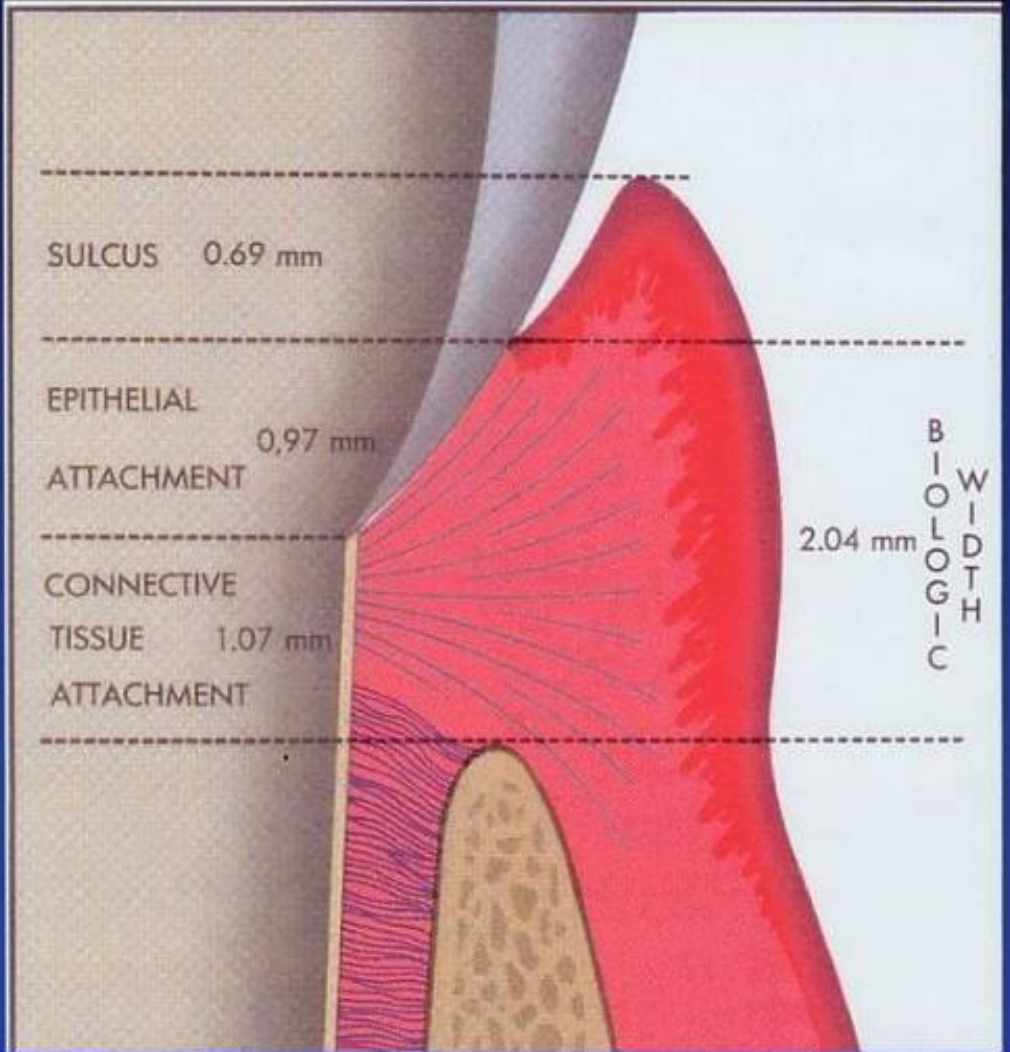
5

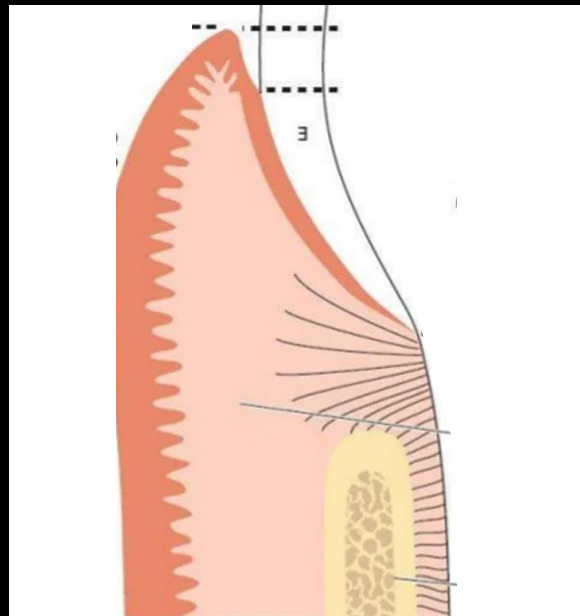
4

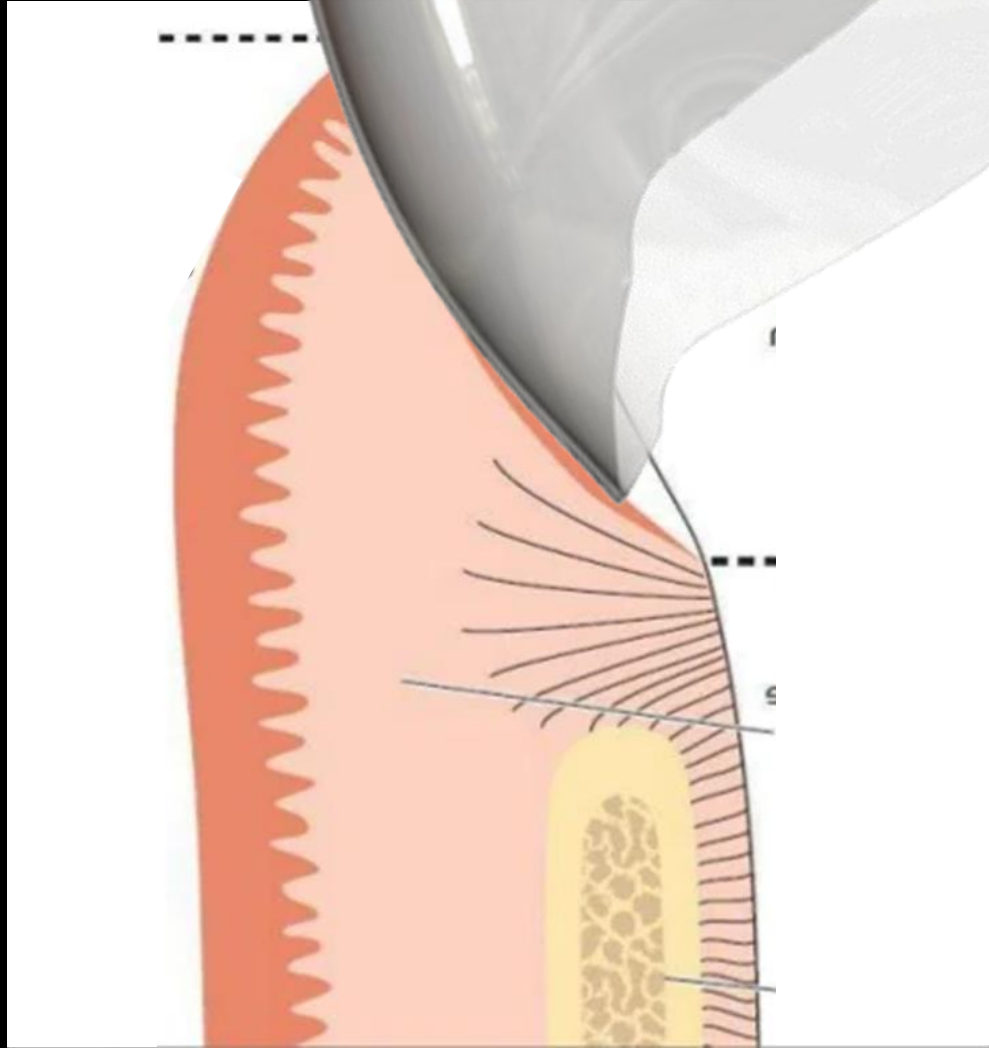
What's my  
reference?

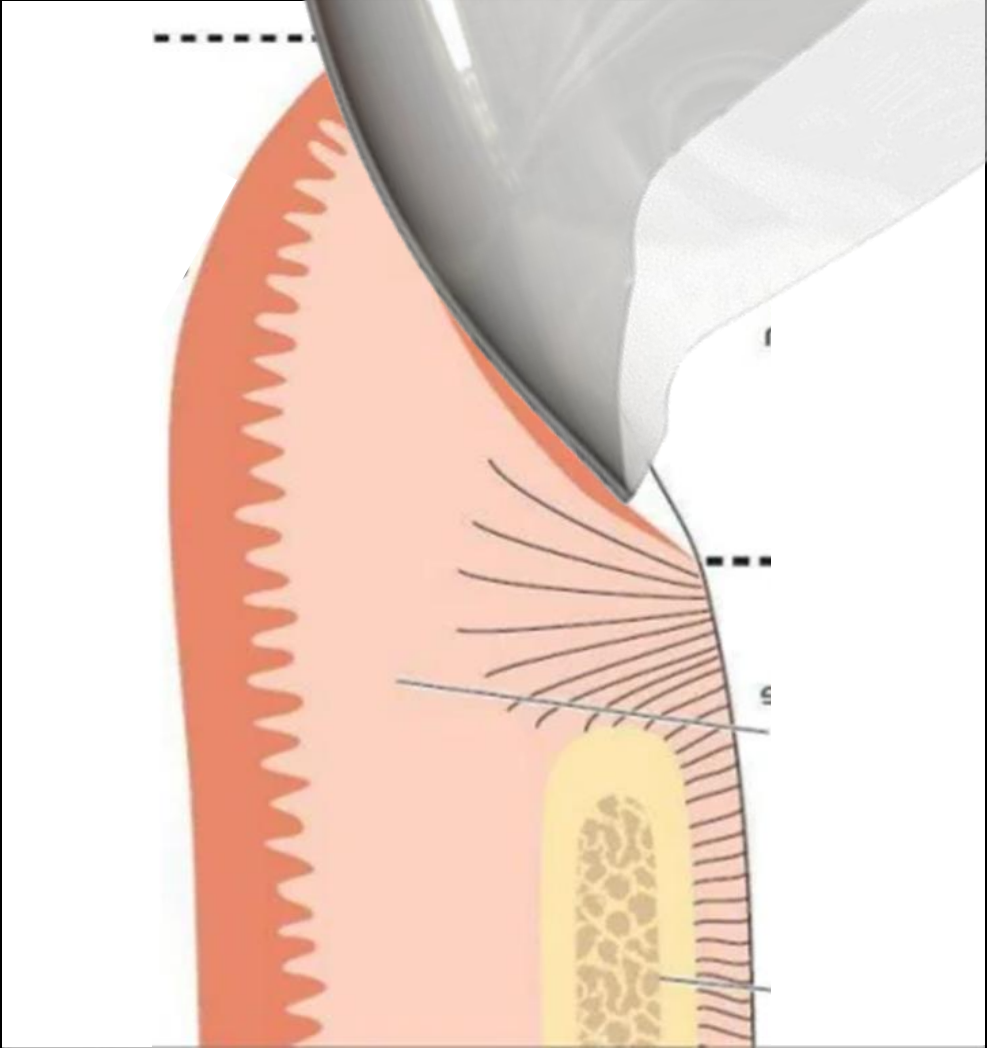


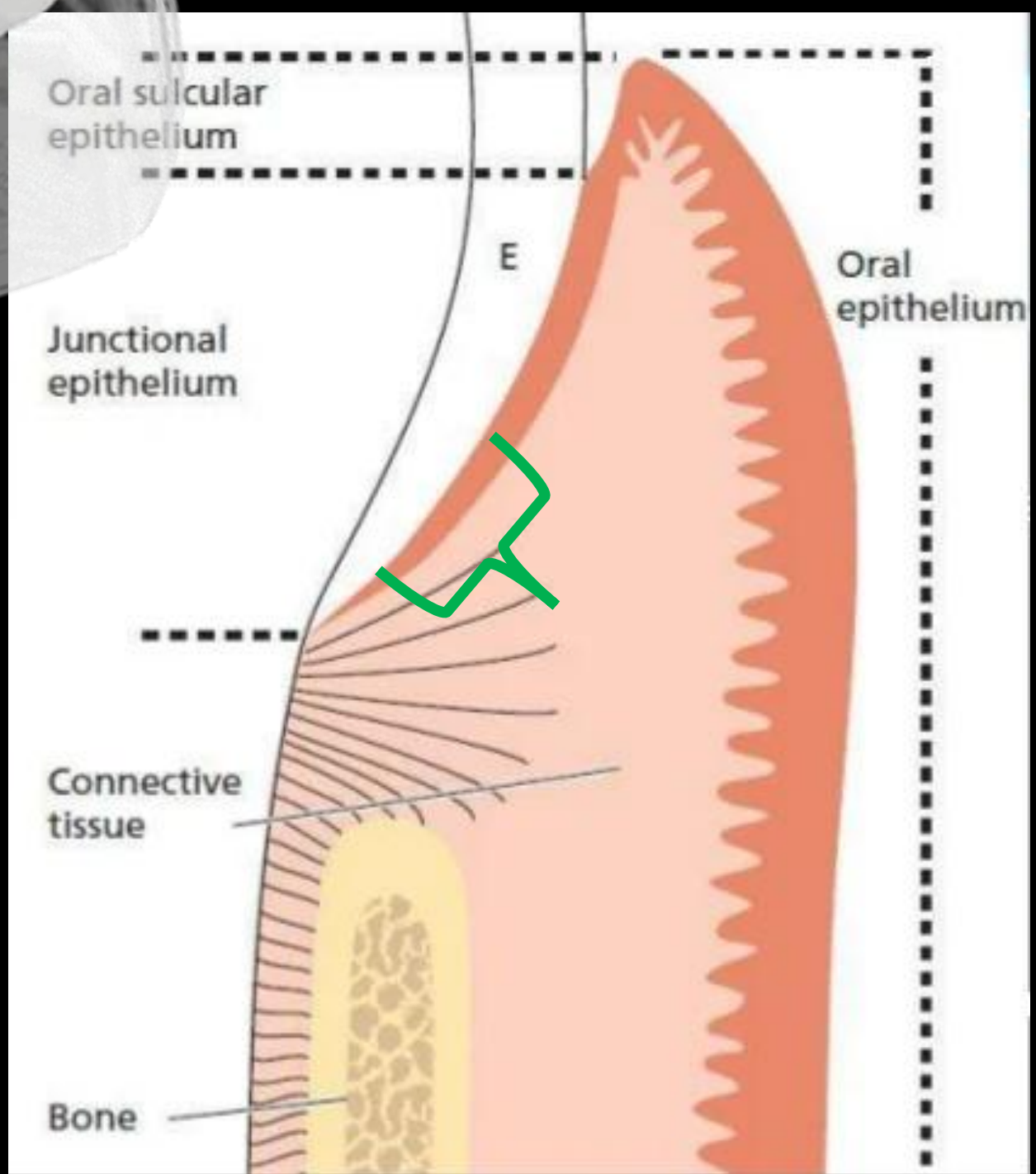
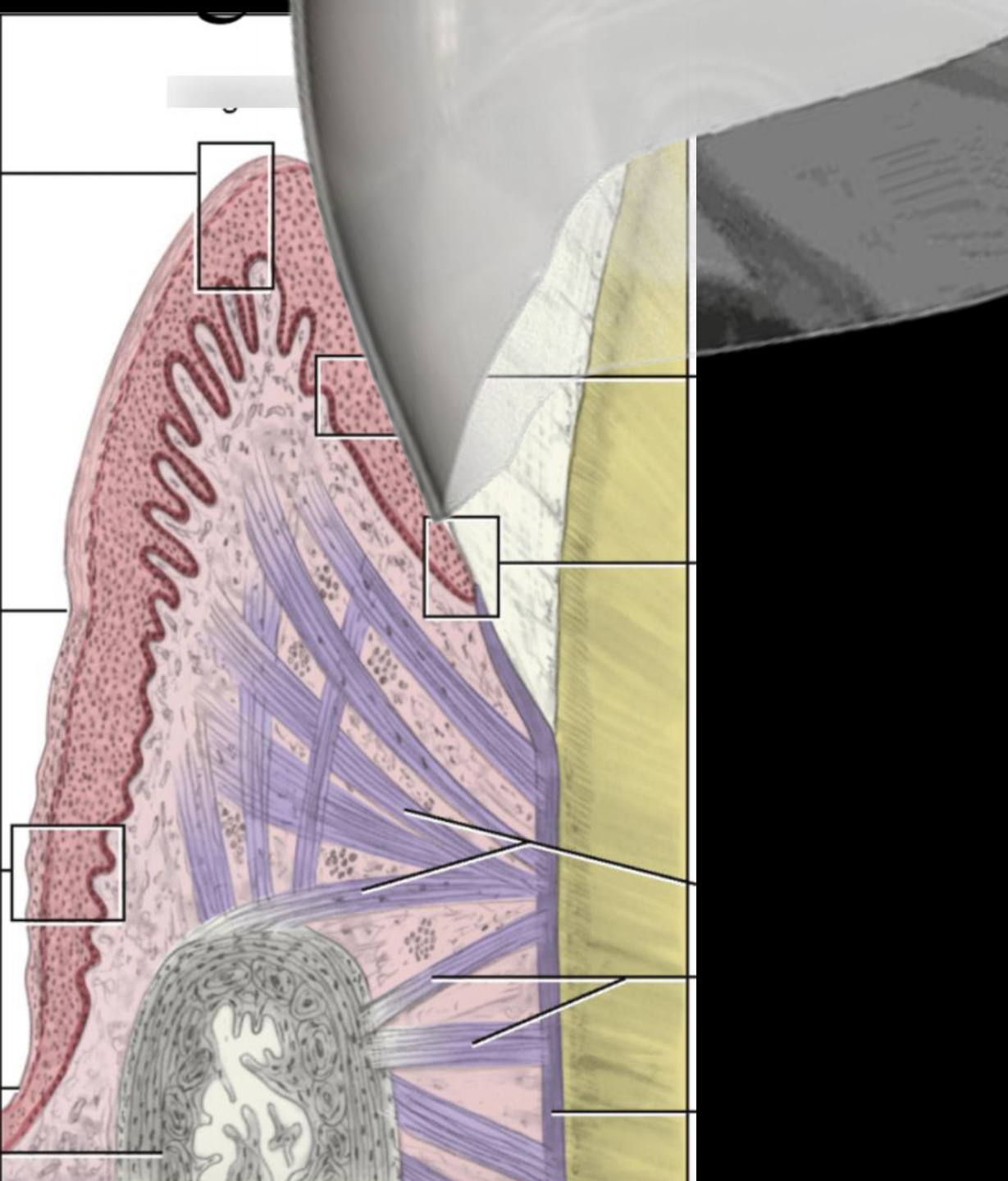












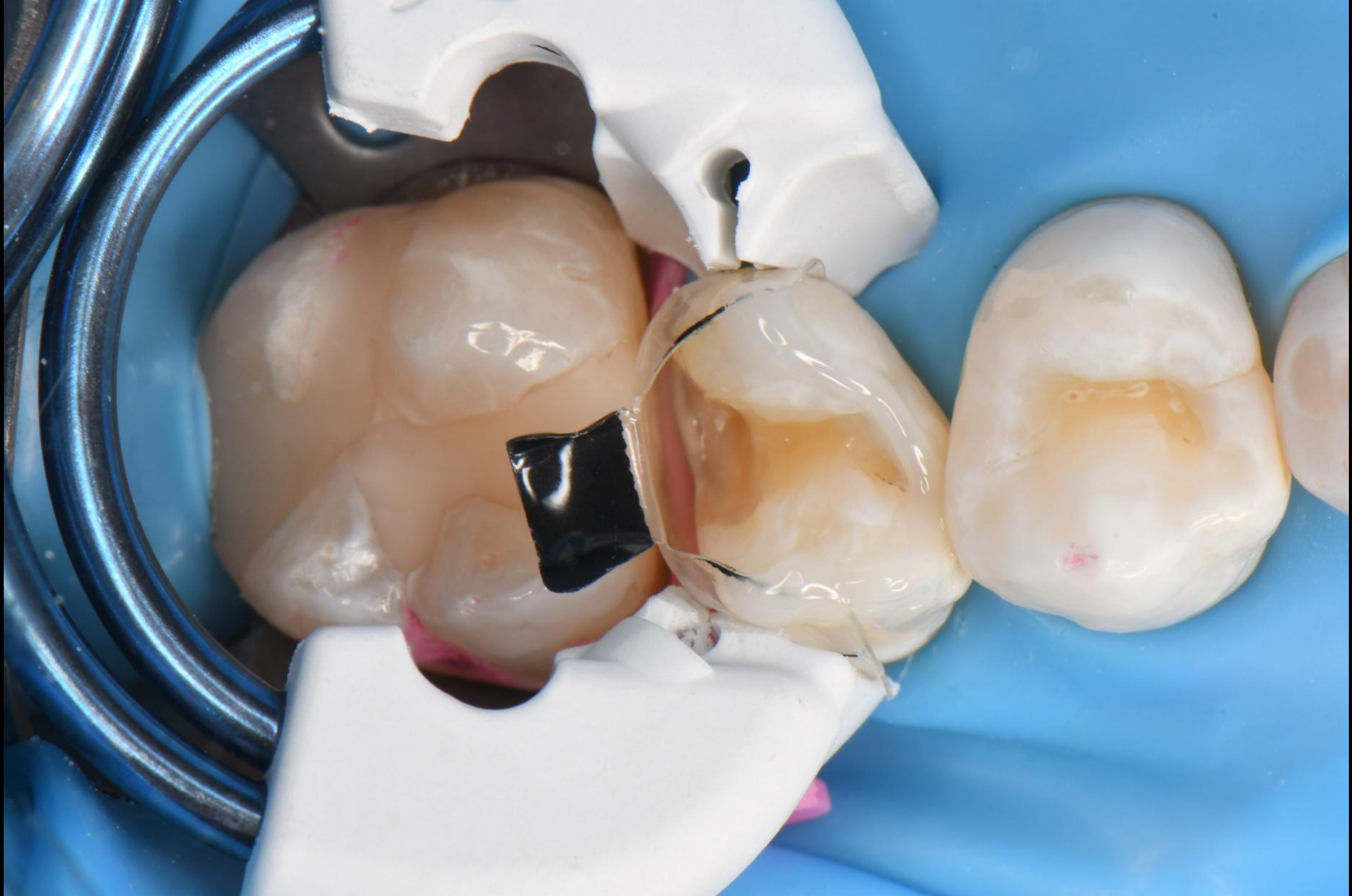


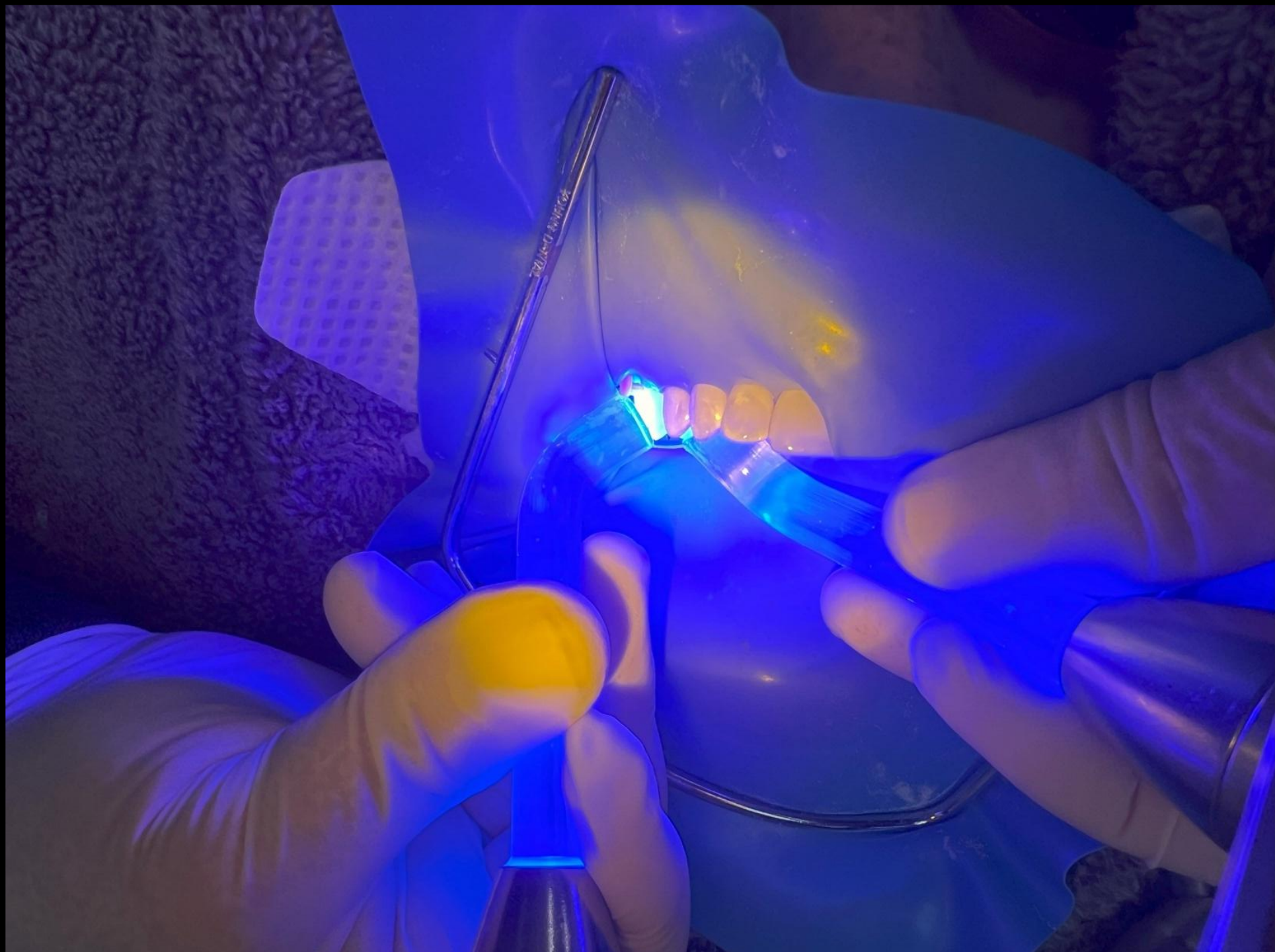


















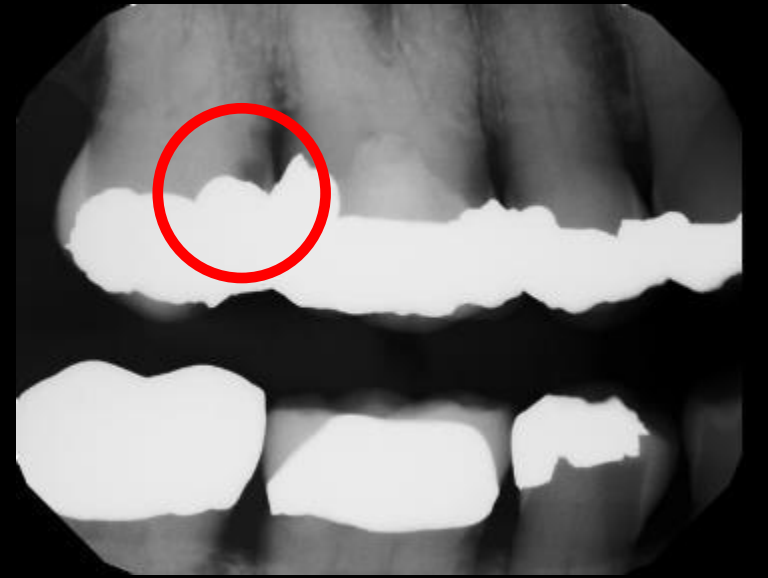




# Similar Case: Pre-op, post op, and 3 year follow up



# Deep Margin Acquisition and the Three Point Spot Weld

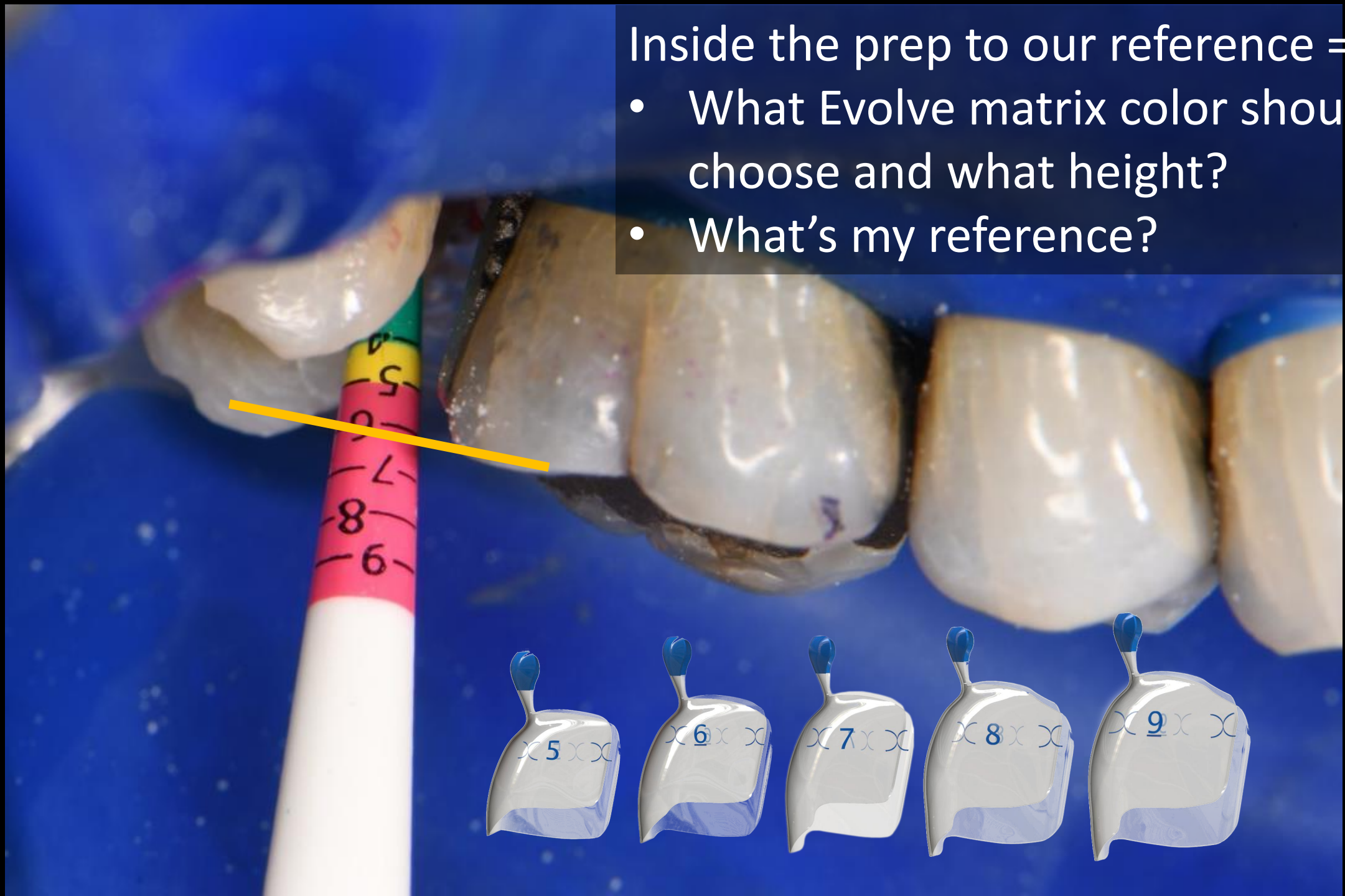


# Deep Margin Acquisition (DMA)



Inside the prep to our reference = 6mm

- What Evolve matrix color should you choose and what height?
- What's my reference?











8 7 6 5 4.5

Bioclear Matrix Systems  
Patent Pending



8 7 6 5 4.5

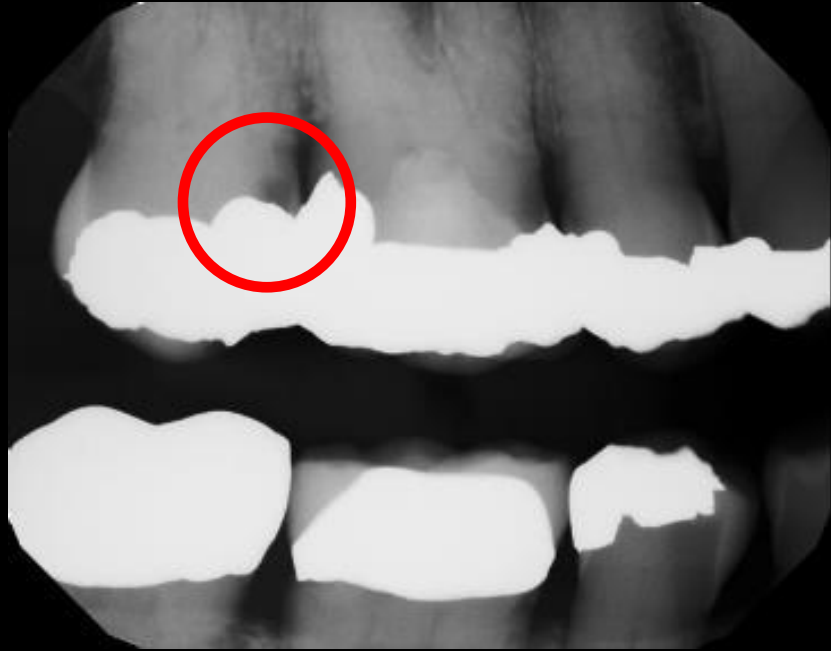
BioClear Matrix Systems  
Patent Pending



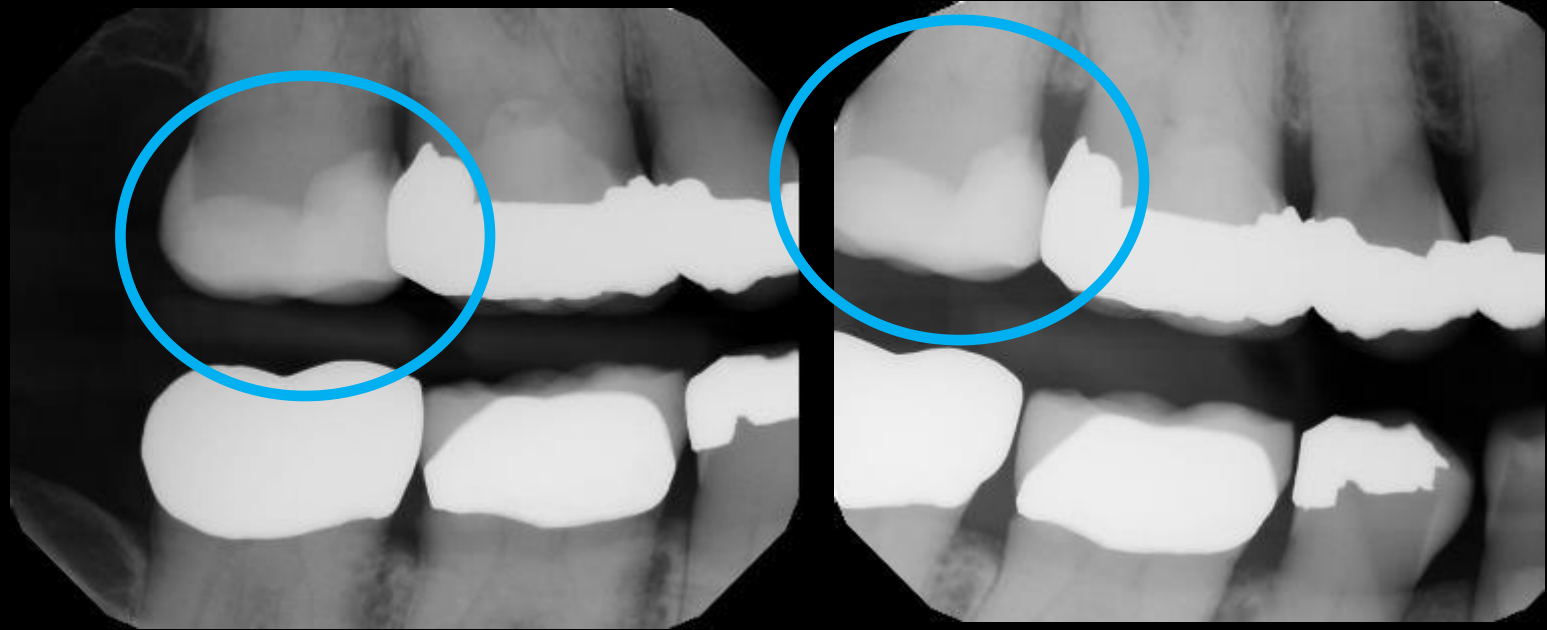




Pre-op



Post-op (two views)

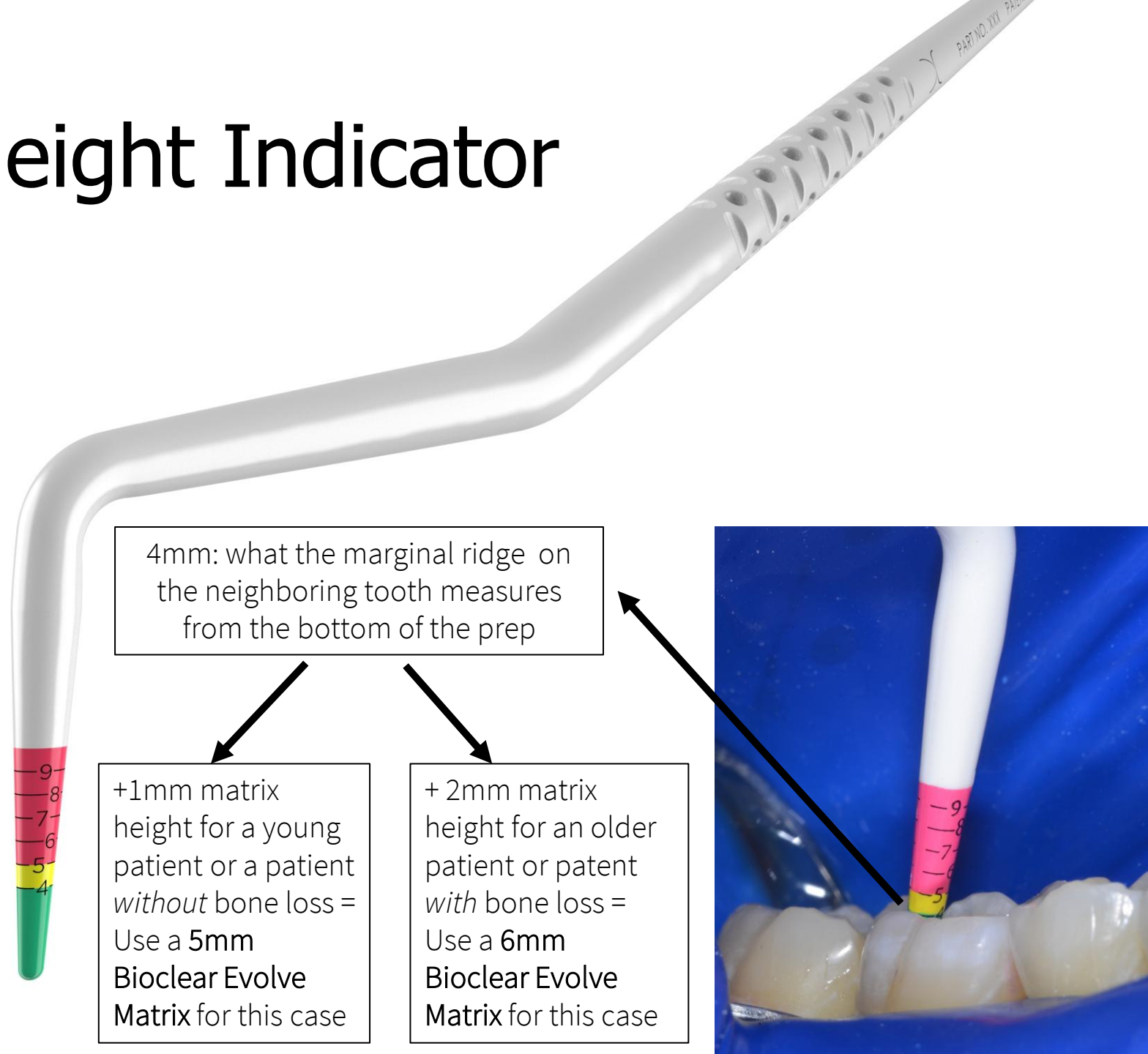


# Evolve Matrix Height Indicator

## Matrix Height Indicator:

Numbers are printed on the indicator so the correct Evolve matrix for a restoration is chosen the first time. This helps reduce waste when incorrect matrices are chosen.

Once you have measured the depth of the cavity in relation to the marginal ridge of the neighboring tooth, you will generally need to add 1-2mm from that reading.



# Evolve Matrix Height Indicator

## Go/No-Go:

The colored tip indicates if a cavity prep can be cured in one layer or if more must be used.

**Red:** NO-GO the composite will be deeper than 5mm

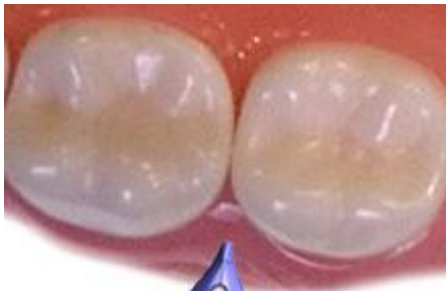
**Yellow:** GO WITH CONDITIONS

**Green:** GO



*Tip: The best reference point is the marginal ridge of the neighboring tooth. If you are doing a back-to-back restoration and no marginal ridge is available, then use the gauge to estimate the height the composite should be when you are finished injection molding but before curing.*





DC

XL

L

M

S



DIAMOND  
WEDGE



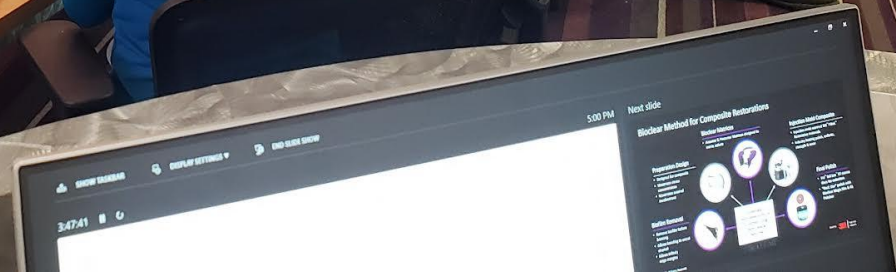
# BIOCLEAR

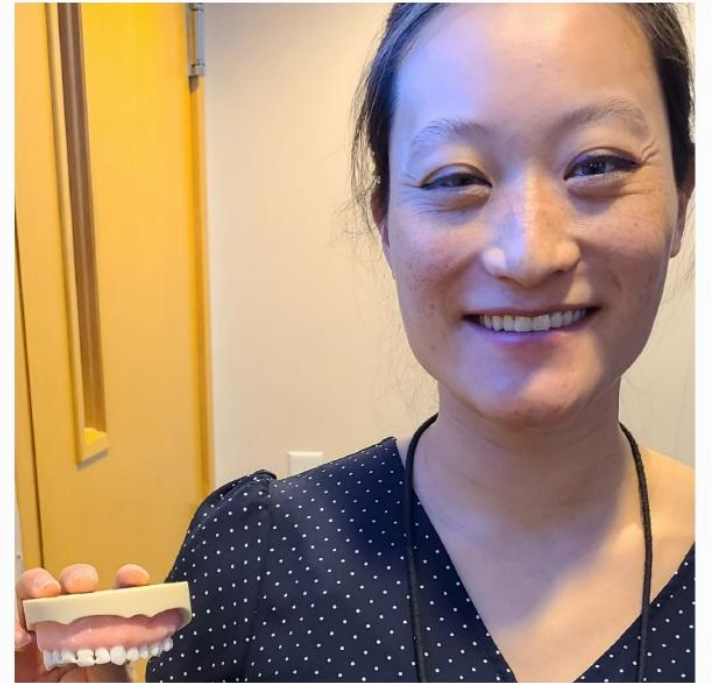
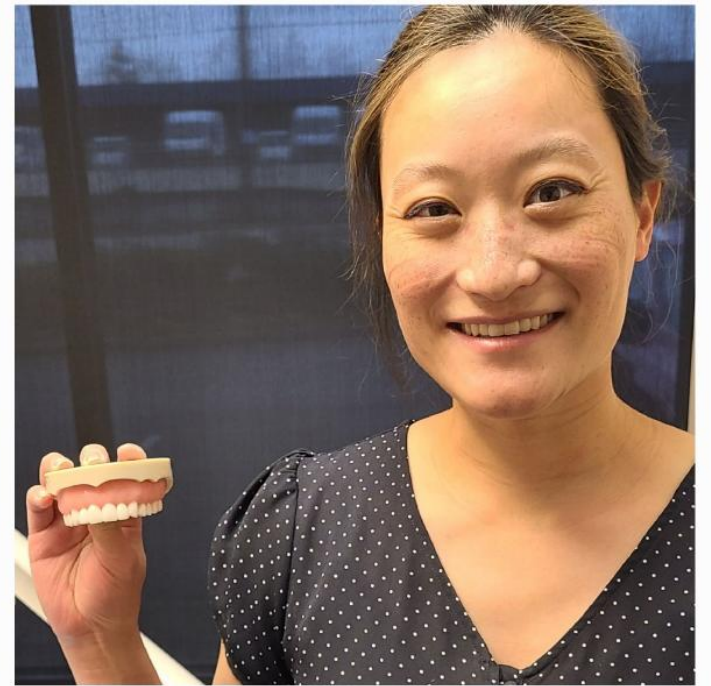
LEARNING CENTER

**Tacoma USA · Solihull UK**  
**Varberg Sweden · Cairo Egypt**  
**Syracuse Italy · Seoul Korea · Taubate Brazil**  
**Madrid/Barcelona · Sydney Australia**  
**Livermore CA<sub>(Pediatrics)</sub> · Baghdad Iraq**









# Last week's attendees at the certification course





For a copy of today's presentation,  
Learning Center info or the essential  
Learning Center Library

