

American Academy
of Cosmetic Dentistry The American Society For Dental Aesthetics Todd Snyder, DDS, FAACD, FIADFE, ASDA, ABAD Laguna Niguel, CA & Las Vegas, NV Aesthetic Dental Designs® doc@tcsdental.com

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LEGION

Entrepreneur, Software Company, Author/Lecturer, Professional Race Car Driver



# HOW MANY VENEER CASES DO YOU DELIVER PER YEAR?

# HOW MANY VENEER CASES DO YOU WANT TO DELIVER?

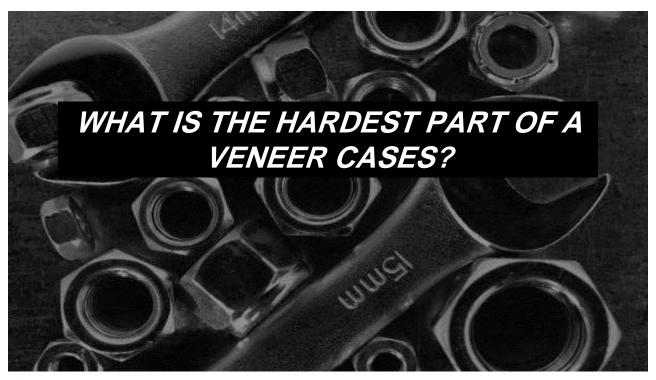
6

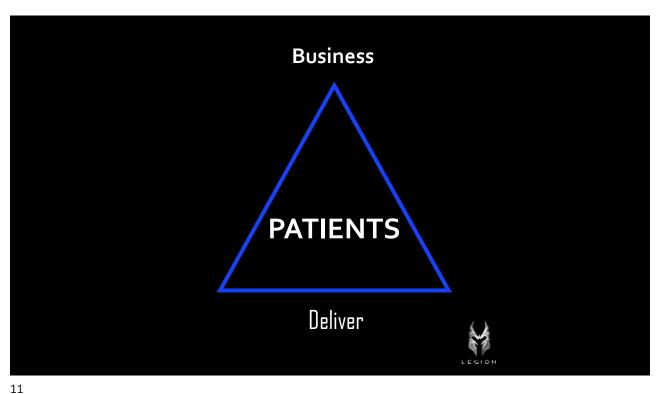


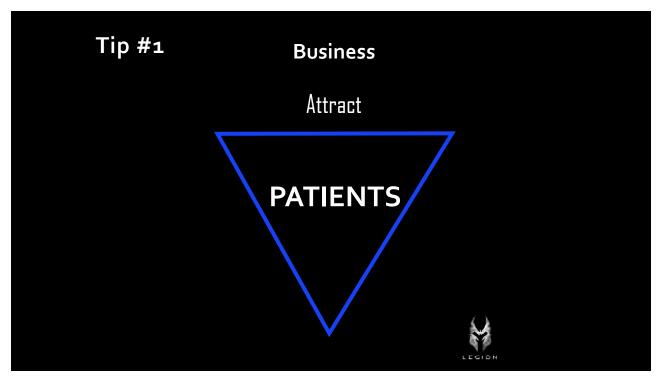
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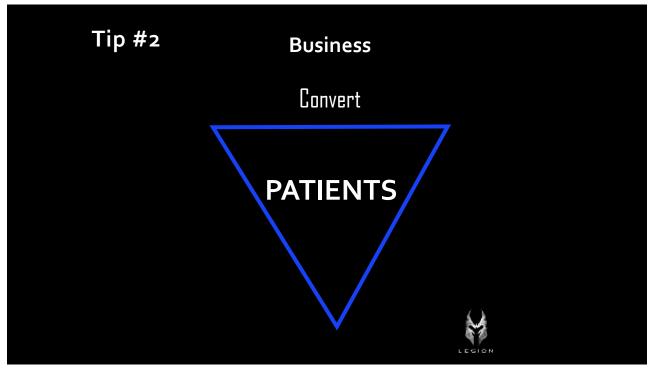


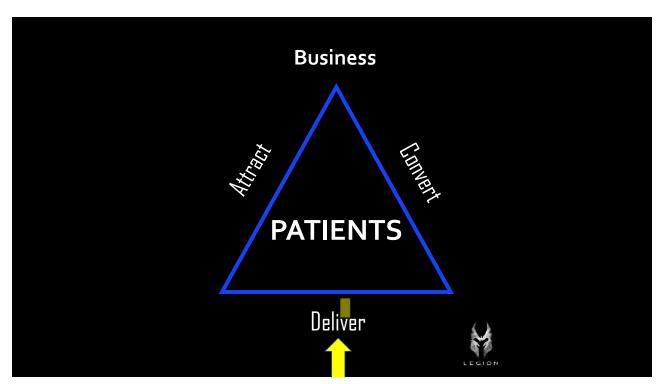






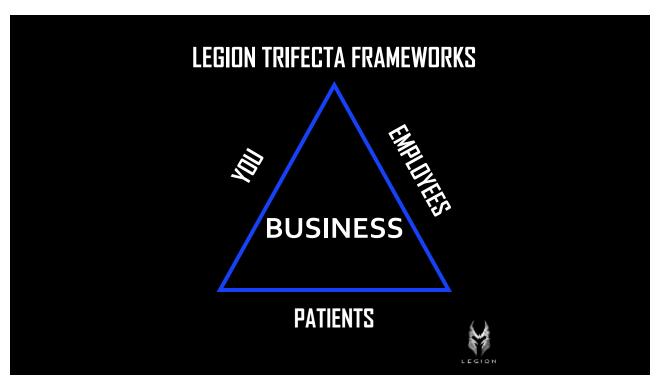


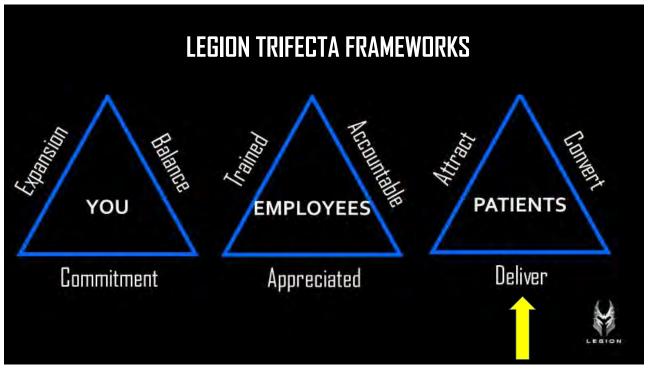




## Deliver

- 1) Preparation
- 2) Impressions
- 3) Provisionals
- 4) Cementation



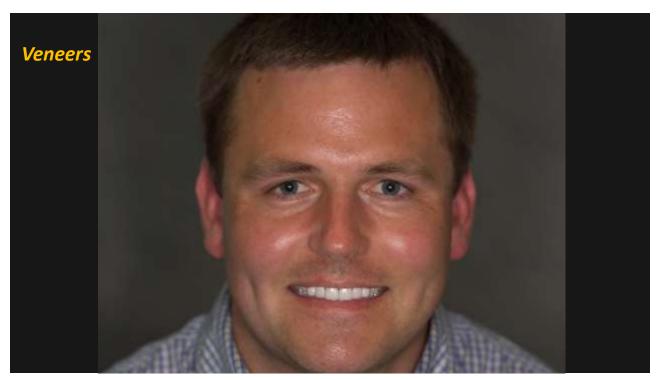




























Hollywood Social Media Veneers?





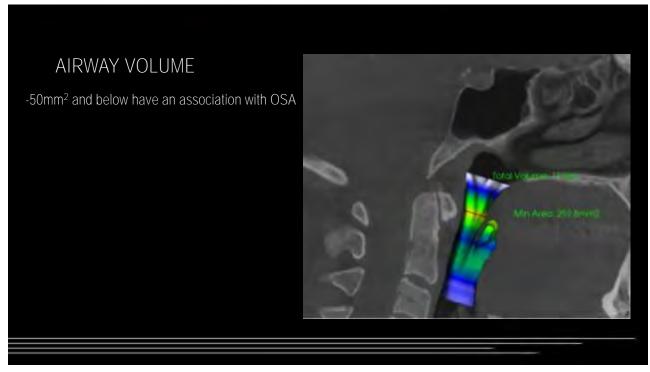
## Provisionals Mimic The Final Restorations



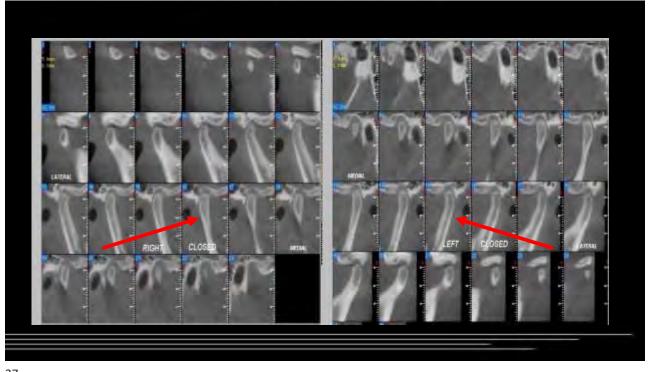












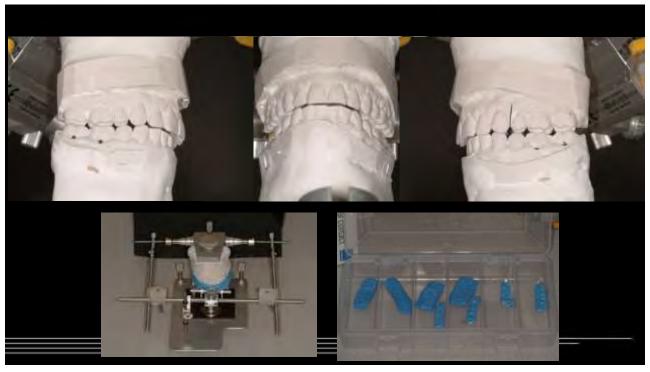




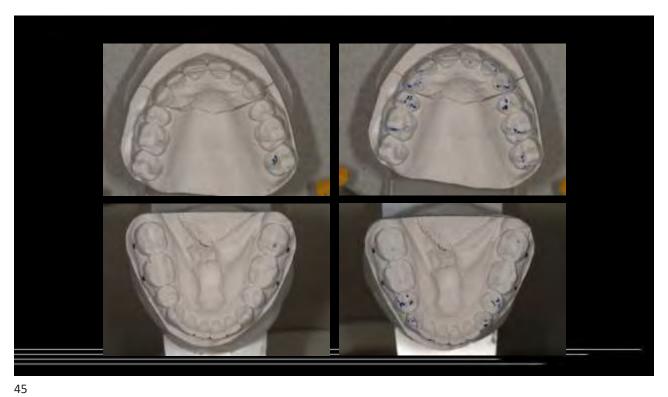


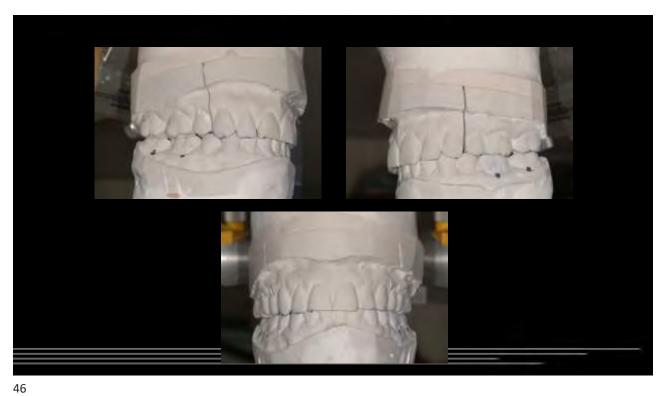






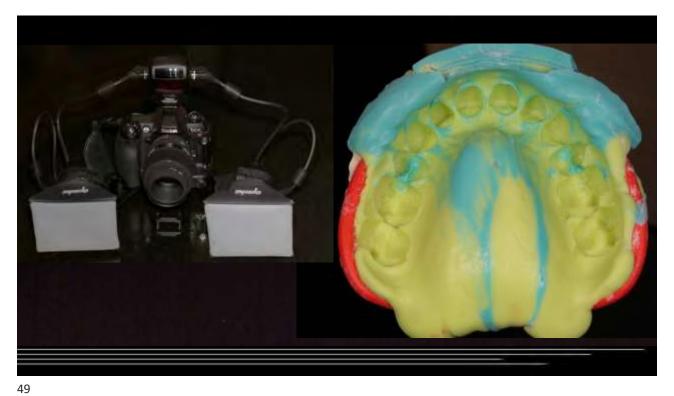




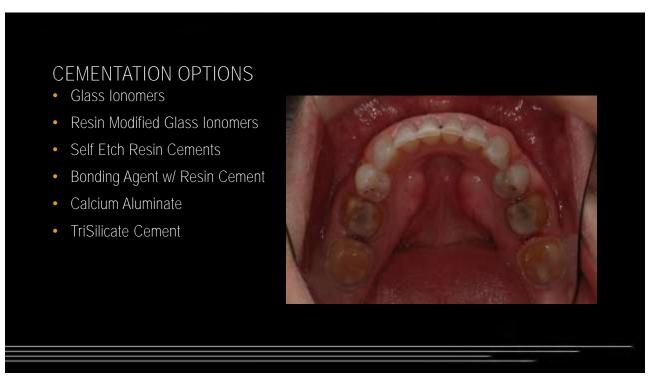












#### CERAMIR (CALCIUM ALUMINATE CEMENT BY - DOXA)

- Alkaline pH 8.5
- Moisture Tolerant
- Self Sealing
- Apatite Formation
- Insoluble
- Stronger with time
- Semi / Translucent
- Biocompatibility-Excellent
- Bioactivity-Apatite formation
- Sealing Quality-Excellent



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#### Cement Selection

#### A Bioactive Dental Luting Cement— Its Retentive Properties and 3-Year Clinical Findings

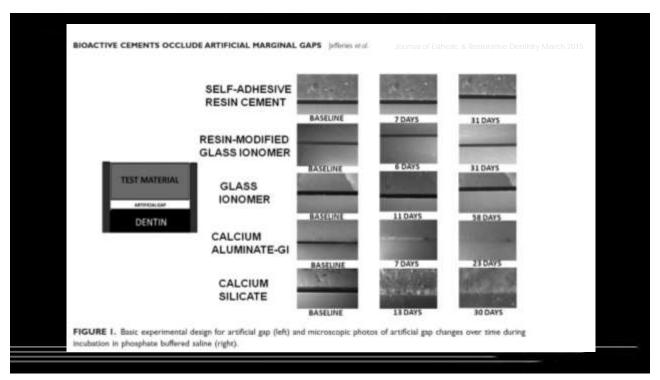
Steven R. Jefferles, MS, DDS, PhD; Cornells H. Pameljer, DMD, DSc, PhD; David C. Appleby, DMD, MScD, FACP; Daniel Boston, DMD; and Jesper Lööf, PhD

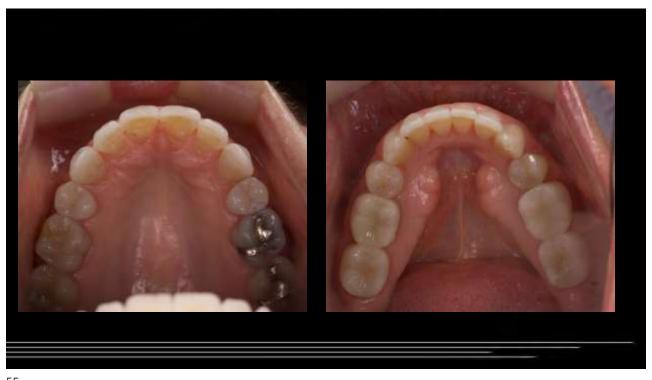
ABSTRACT - A clinical validation study was conducted to determine the performance of a new biosective dental coment

Three year recall data yielded no loss of retention, no secondary caries, no marginal discoloration, and no subjective sensitivity. All restorations rated excellent for marginal integrity.

and one two unit polint. Three-year recall data yielded on his of setertion, no secondary carries, no marginal discularations, and no collective according to the property of the secondary carries, no marginal integrity. According to marginal from 7.63 mm at baseline to 0.44 mm at 6-month recall, 0.20 mm at 1-year recall, and 0.00 mm at 2- and 0.20 mm at 1-year recall, and 0.00 mm at 2- and 0.20 mm at 1-year recall, 0.21 at 2-rear recall, and 0.07 at 8 west recall. After periodic recalls up to 0.40 mm to 0.46 at 1-year recalls of 0.47 at 8 west recall. After periodic recalls up to 0.40 mm to 0.40 mm

Keyworks: dental serment, communication, fulling comment, himselve, crowns, bridges, gold, REM









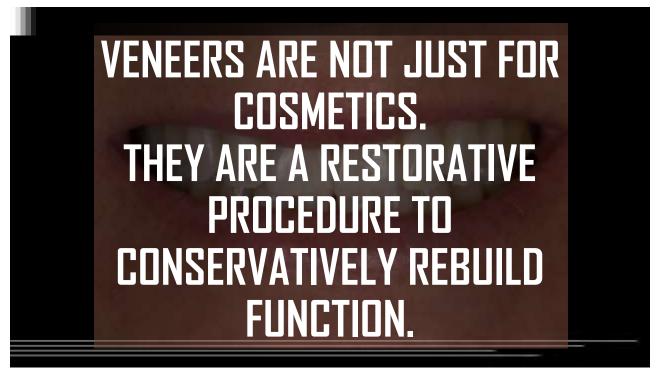


#### **Review Patient with Problems**

- -Sleep Study Questionnaire
- -Sleep Study?
- -Cone Beam CT (CBCT)
  - -TMJ Diagnosis (Beamreaders.com)
  - -Airway Evaluation
- -Superior Repositioning Appliance (SRA)
  - -Reline as needed.
- -Hinge Axis
- -Diagnostic Model Workup
- -Discuss Options with Patient
- -I.C. and RBAs....Signatures







### There is not one key to success....



There are many and they all open different doors



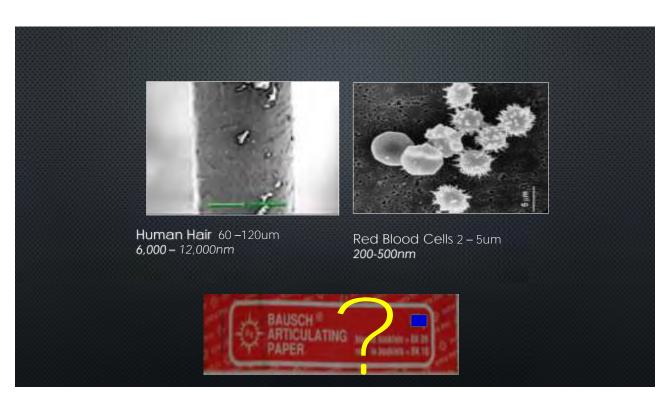








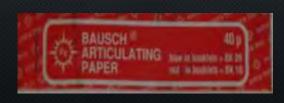






What do you use.....

....and why?



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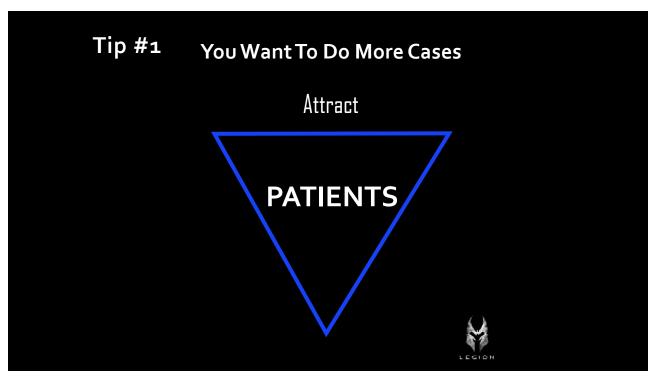
#### **SHIMSTOCK & ARTICULATING PAPER**

- Parkell Accurium II is 21mm FOR DENTISTRY
- GREAT LAKES ARTICULATING RIBBON 12MM
- 8MM ALMORE SHIMSTOCK FOIL
- 8MM ARTICULATING PAPER??

































According to the American Academy of Cosmetic Dentist 1/5000 (float) entry a mark 1/2000 with their smiles, and 3 out of 5 people will invest in their smiles.

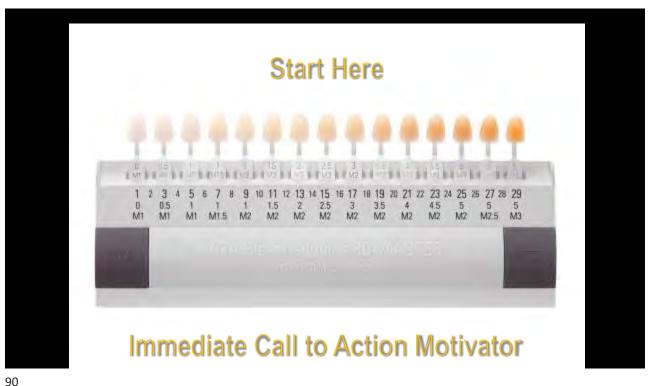
### **ATTRACTion**



One of the most powerful & fastest tools you own to create cosmetic opportunities??









Over-the-Counter Teeth Whiteners: \$1.4 billion (MSNBC) ... (Consumer Reports).

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# COSMETIC DENTISTRY OPPORTUNITIES



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### Opalescence GO!

- Fast, Easy, Effective, Better Experience
- Convenient & affordable professional whitening to GO
- Pre-loaded, disposable UltraFit™ tray for a custom-like fit
- Molar-to-molar coverage
- No chair time



### Instructions



1. Remove from package.



2. Center tray on arch.



3. Gently suck down or swallow.



4. Remove outer tray.



5. Suck down or swallow again.



Wear 10% for 30 to 60 minutes and 15% for 15 to 20 minutes.

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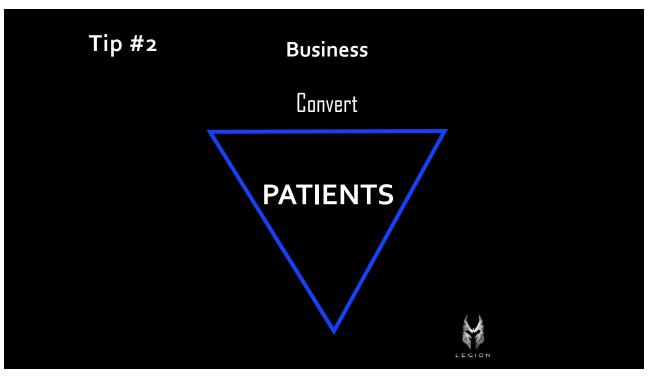




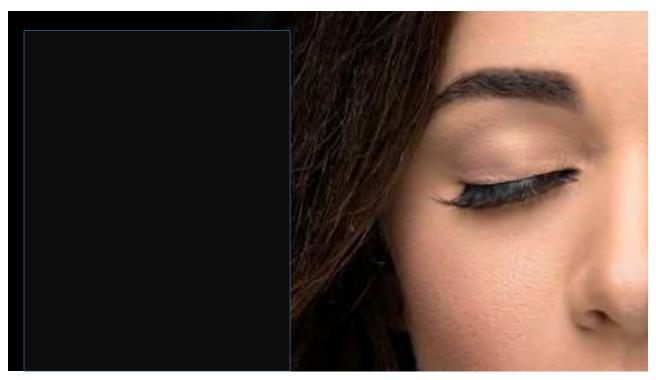
"Total annual revenue in the teeth whitening industry topped \$11 billion at the beginning of 2015, with \$1.4 billion spent on teeth whitening products. These figures suggest a steady annual increase in the teeth whitening market industry, which is expected to continually climb over the next 10 years" AACD Research





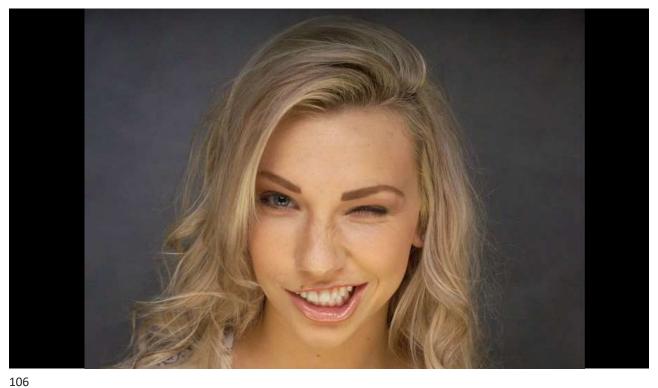
















An enchanced smile for Briaette provided by Dr. Todd Snyder

### Smile Simulations / Digital Mockups

- STARTS WITH A PROBLEM OR PAINPOINT
   ELABORATE ON IT RELATED TO THE EFFECT ON: BODY, BEING, BALANCE, & BUSINESS
- PAINTS THEIR FUTURE POSSIBILITY
- THEY SEE A NEW REALITY!!
- SHOW VISUALLY APPEALING PHOTO(S)
- OFFER

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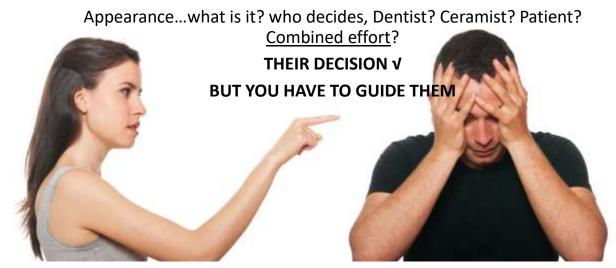






## **COMMUNICATION!!**

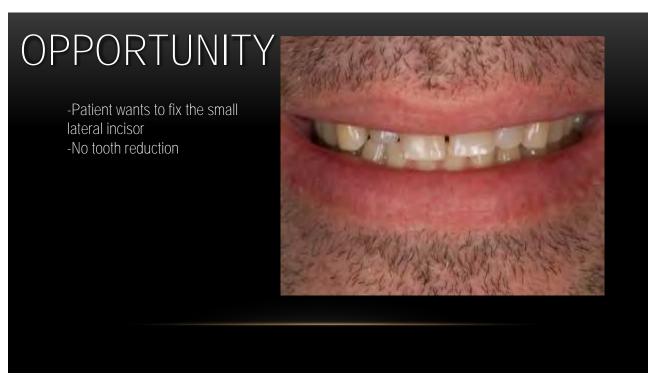
### SECOND KEY COMPONENT



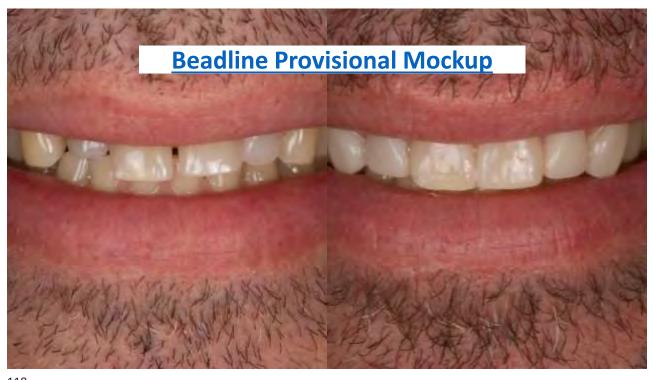
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### **Beadline Provisional Mockup**





Diagnostic Models with a waxup are duplicated. Special over impression is created and used to deliver temporary mockup

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### Show Possibilities...



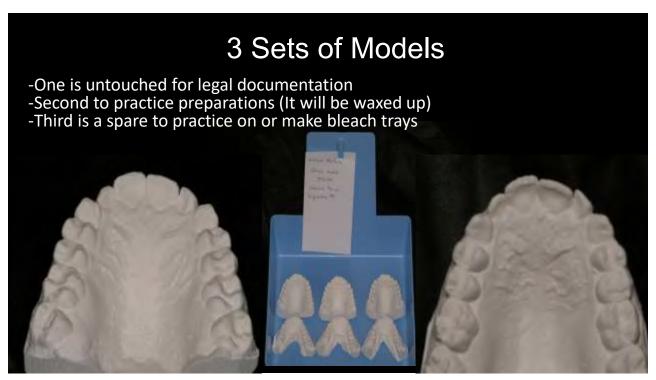




# Diagnostic Models & Records



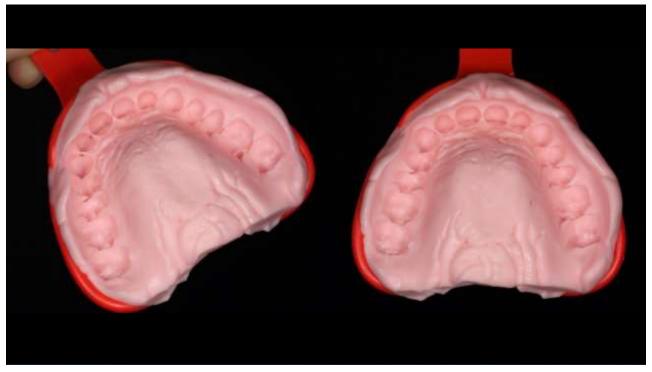




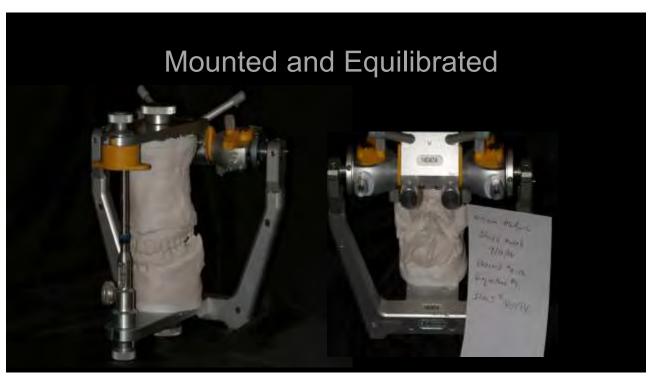












### Smile Design/Preparation Design: -What, Where, Why, Apply

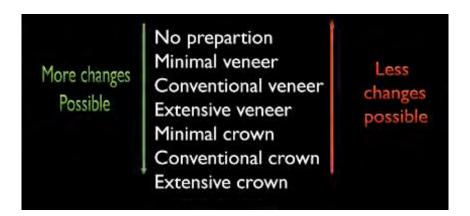


- 1) What is the plan??
- 2) What are you thinking?3) What is the patient thinking?
- 4) What is the lab technician thinking?

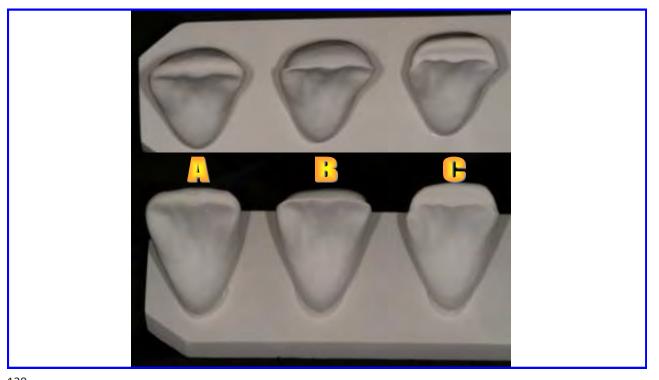


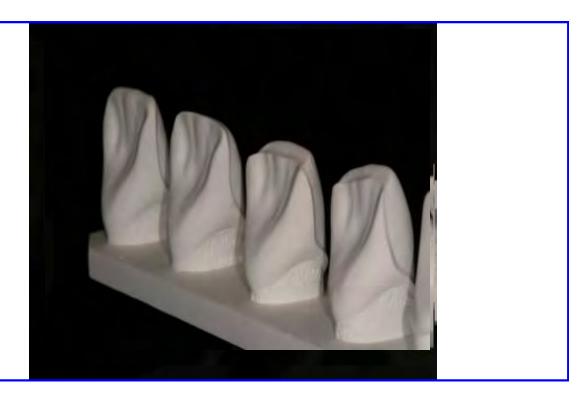


Conservative Preparations





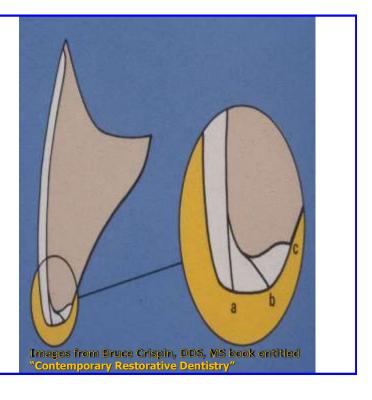




### **Veneer Preparations**

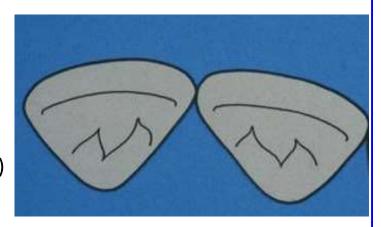
Incisal edge preparations

- a) No incisal lengthening
- b) Changing color or wear
- c) Lengthening tooth
- d) Interproximal
  - a) When to break contact?
- e) When to do a crown



### **Veneer Preparations**

- Depth Cuts
- Tooth Reduction
- Margins
- Retention Form (Line of Draw)

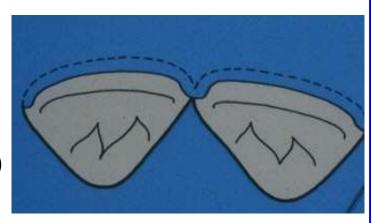


Images from Bruce Crispin, DDS, MS book entitled "Contemporary Restorative Dentistry"

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### **Veneer Preparations**

- Depth Cuts
- Tooth Reduction
- Margins
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Images from Bruce Crispin, DDS, MS book entitled "Contemporary Restorative Dentistry"

### **Veneer Preparations**

- Depth Cuts
- Tooth Reduction
- Margins
- Retention Form (Line of Draw)



Images from Bruce Crispin, DDS, MS book entitled "Contemporary Restorative Dentistry"

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### **Modern Ceramics**

- Stand Alone Strength Properties
  - Feldspathic (80-120 mpa)
  - Lithium disilicates (360-500mpa)
  - Lithium silicate (373 mpa)
  - Zirconia (Monolithic 640-1200 mpa+)
    - Layered Zirconia Feldspathic (80-120mpa)







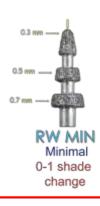
### **Veneer Preparations**

labial reduction options
Depth Limiting Burs - Brasseler USA

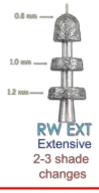


Average enamel thickness

At CEJ .3-.4 mm Middle third .8-1.0 mm Incisal third 1.1-1.3 mm







150



### **leneer Preparations**

Preparation Reduction

- Depth reduction burs
  - Safe reduction
  - Lasco





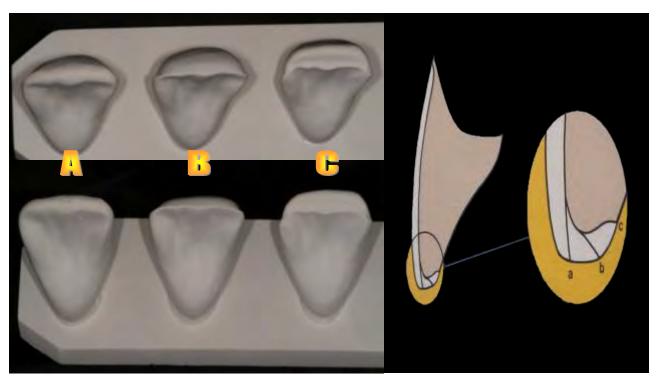


































### PREPARATION REVIEW

- Mount cases
- Practice preparations
- Stay away from functional stops
- Do not break contacts unless:
  - Black triangles
  - Large fillings
  - Rotation
  - Diastemas

- **♦ Take the least amount of tooth off**
- **♦ Build teeth out a few tenths when possible**
- **♦ Show lab your preparations**

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# PROVISIONALS



### **Luxatemp Ultra**

Industry leader in flexural strength - a true measure of provisional stability and durability

- Unsurpassed break resistance
- Faster curing, easier cutting and handling
- Fluorescence added for outstanding esthetics and temporaries that appear more like natural teeth
- Superior stability and durability
- · Incredible polish and luster



### **VISALYS** (Kettenbach)

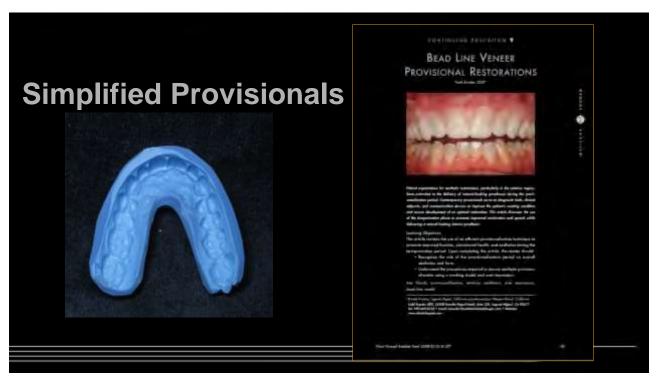
Proprietary multifunctional acrylic composite.

Suitable for the fabrication of temporary crowns, partial crowns, bridges, inlays, onlays and veneers.

- Made without BPA
- High Strength
- Natural Luster
- Unsurpassed break resistance
- Incredible polish and luster



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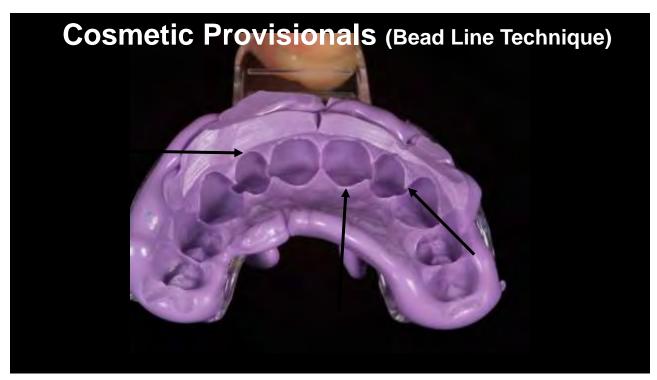
### **Cosmetic Provisionals** (Bead Line Technique)



Bead Line Veneer Provisional Restorations. Pract Proced Aesthet Dent 2009;21(3):E1-E7.

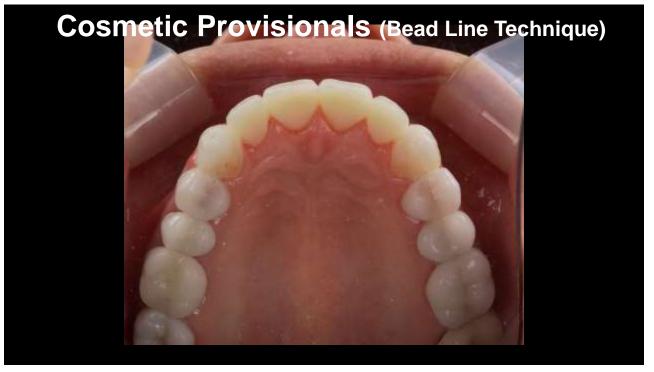
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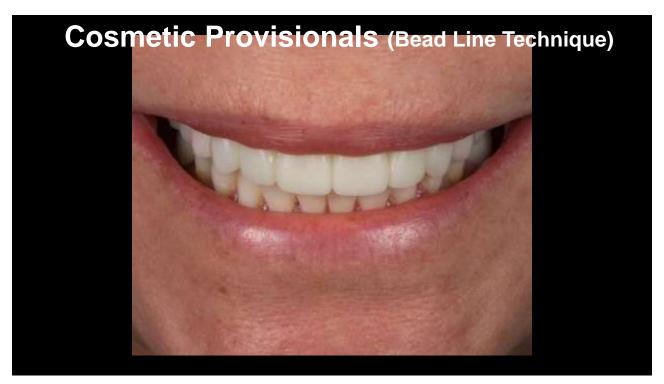






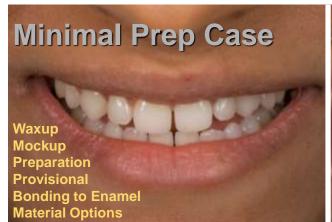














Minimally Invasive Veneers.... Why? Benefits??





Mockup





# Depth Cuts

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Photos for Laboratory Technician





### **Provisional Restorations**

(No etching, no bonding, mechanical retention only)

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## Final Restorations

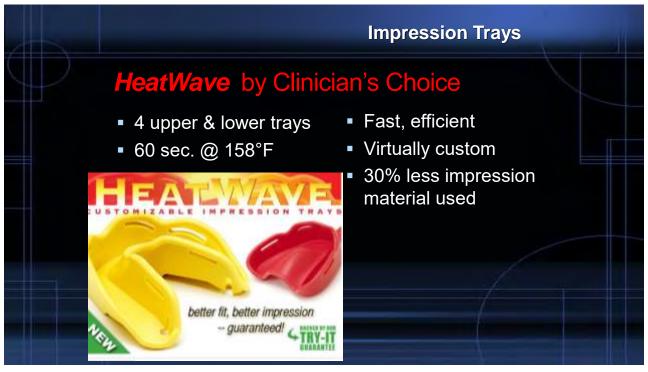
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Provisionals Mimic The Final Restorations

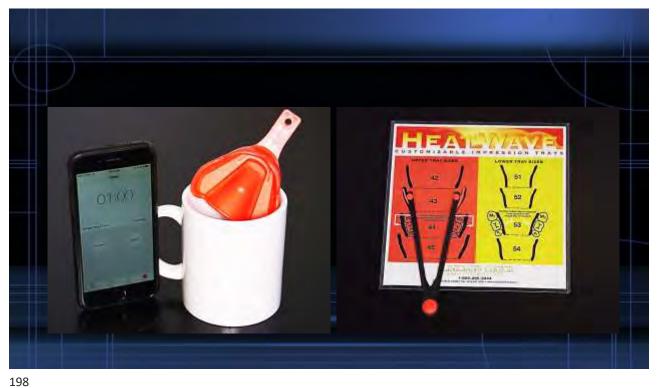


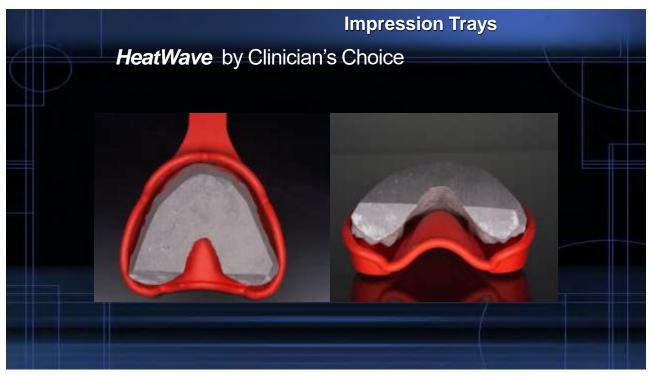






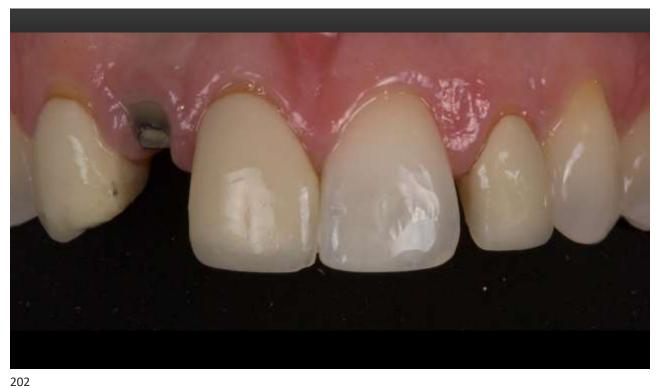


















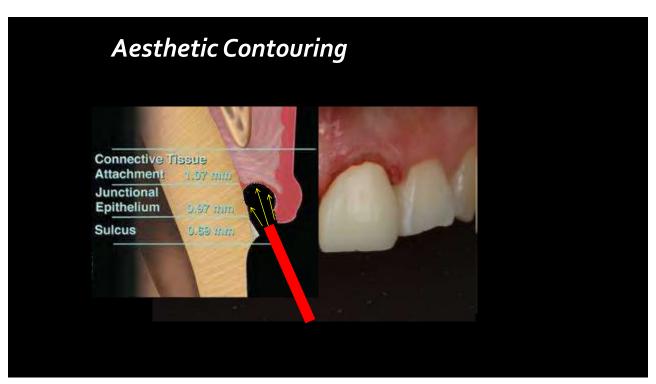


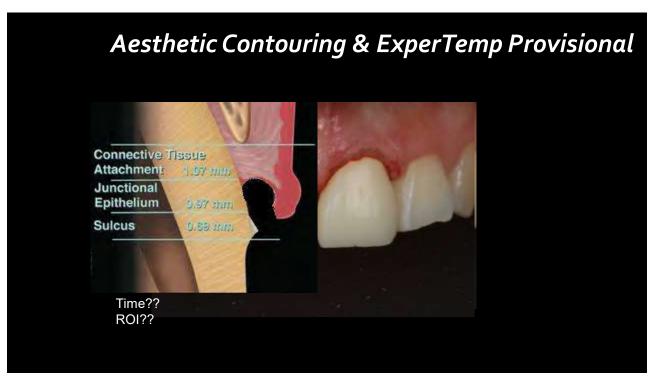
















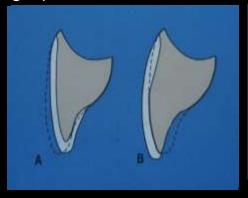


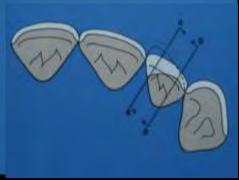
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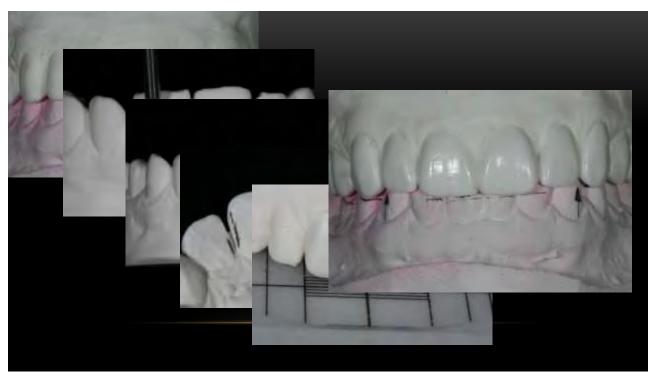
# Instant Ortho/Un-Rotating Teeth

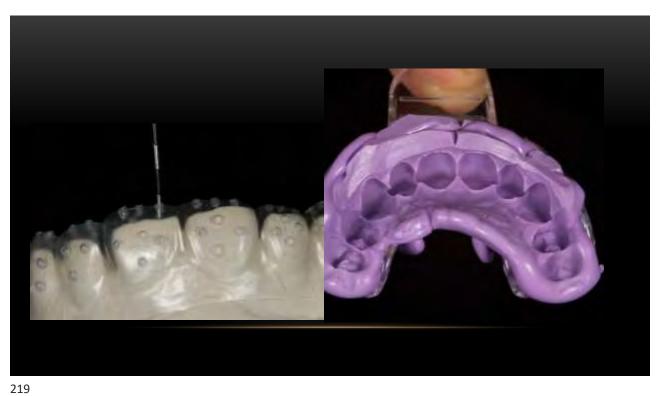
- Reduce all excess tooth structure
- Ideal reduction
- Margin placement

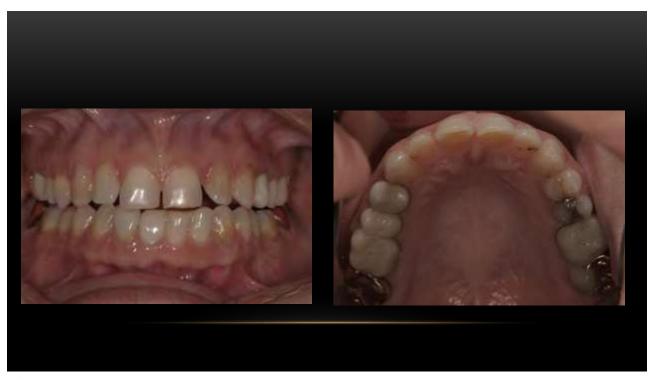


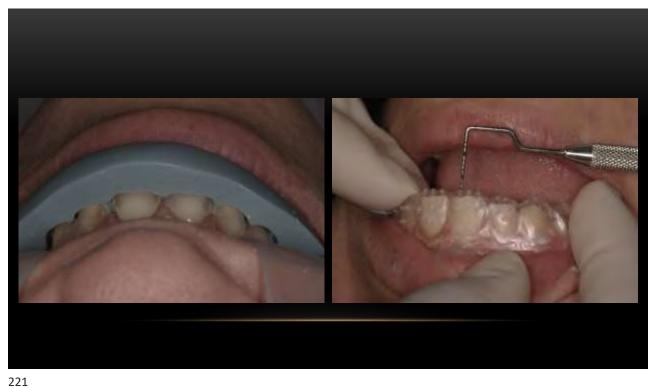


Images from Bruce Crispin, DDS, MS book entitled "Contemporary Restorative Dentistry"



































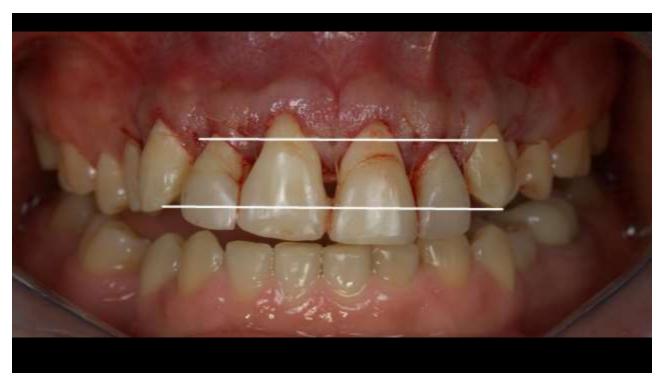












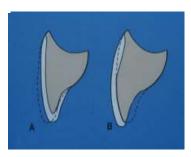


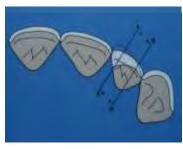




### Instant Ortho/Un-Rotating Teeth

- Do initial workup
- Diagnostic preps
- Diagnostic waxup
- Sequence
  - Reduce all excess tooth structure
  - Ideal reduction
  - Margin placement

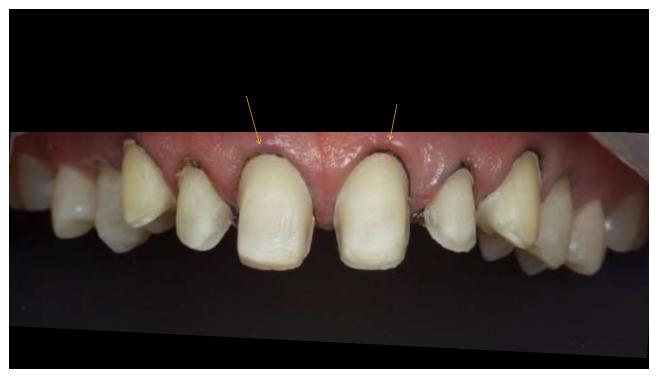




Images from Bruce Crispin, DDS, MS book entitled "Contemporary Restorative Dentistry"

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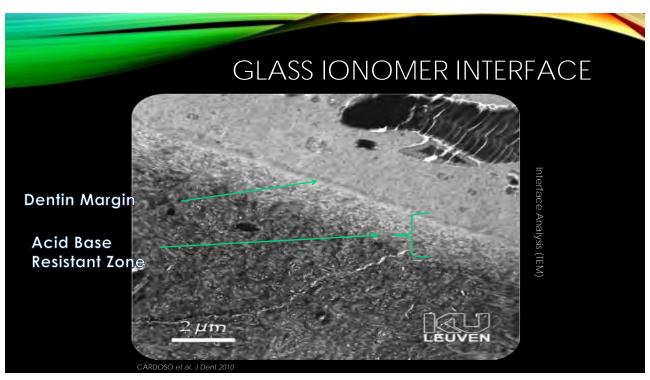


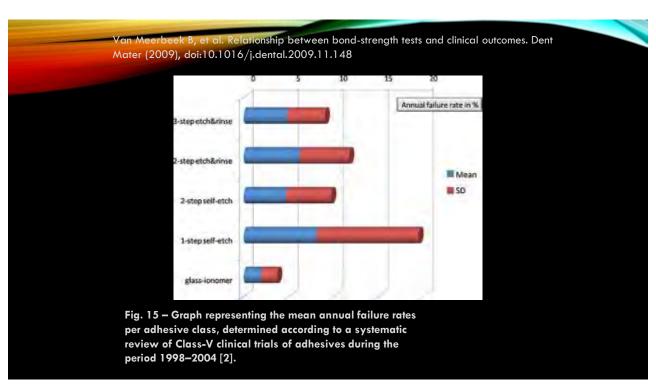


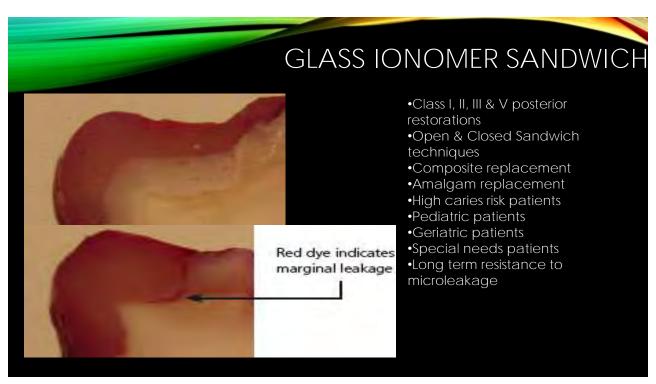


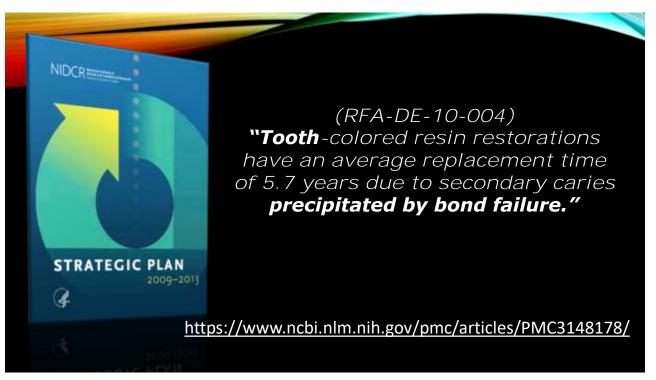
# Why Glass Ionomers?

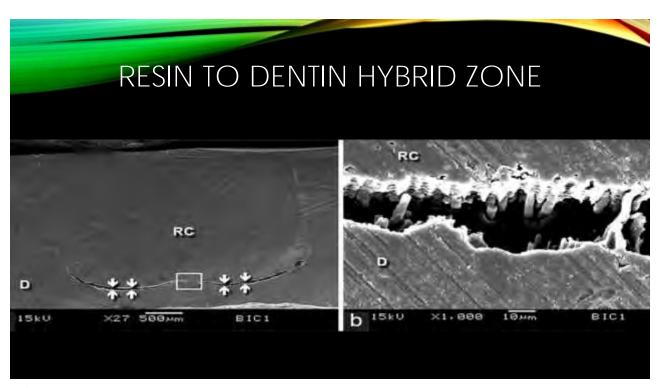
- Bioactive material
  - affinity to tooth structure. when placing a glass ionomer a weak acid or conditioner is used to aid in releasing calcium and phosphate ions from the tooth structure. These calcium and phosphate ions combine into the surface layer of the glass ionomer and form an intermediate layer called the interdiffusion zone. This bond layer can be very strong and significantly reduce the microleakage that would occur at the margins of the restoration.
- Very good fluoride and ion release helps remineralize tooth structure in the remineralization-demineralization process that naturally occurs in the oral cavity.
- They chemically bond to enamel and dentin and are hydrophilic.



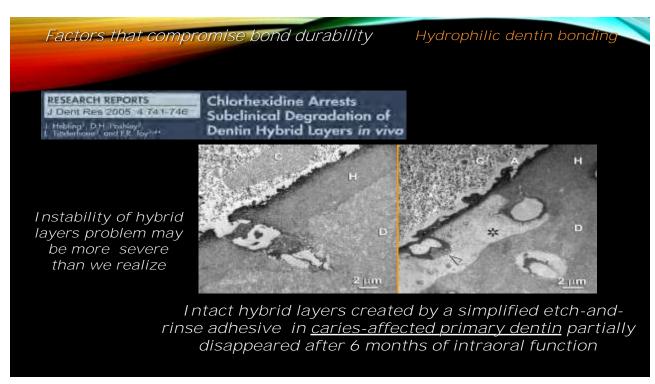


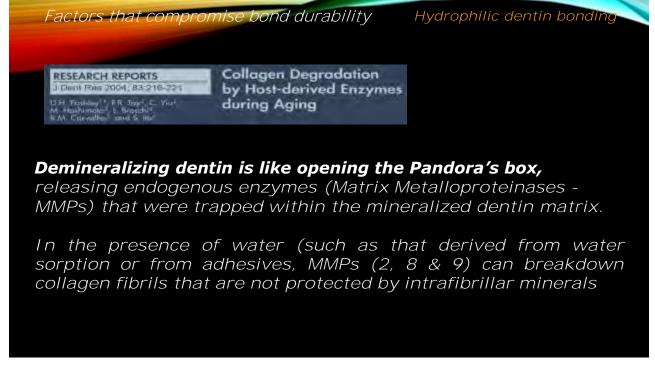












#### **BOND DEGREDATION**

• Pashley DH, Tay FR, Imazato S. How to increase the durability of resin-dentin bonds. Compend Contin Educ Dent. 2011 Sep;32(7):60-4, 66.

Resin-dentin bonds are not as durable as was previously thought. Microtensile bond strengths often fall 30% to 40% in 6 to 12 months.

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#### ORAL BACTERIA DEGRADATION OF RESIN RESTORATIONS



https://www.researchgate.net/publication/321184952 The role of adhesive materials and

oral biofilm in the failure of adhesive resin restorations

# microleakage testing in vitro using three different bases under composites

T. DUONG, L. TRAN, R. PERRY, G. KUGEL, Special Issues of the Journal of Dental Research. ABSTRACT #0366 > Tufts University School of Dental Medicine, Boston, MA, USA.

#### abstract:

Objective: Its compare Carry il microsivargo in altro of those different bases placed union composite restrictions.

Methods: Thirty-tal extracted modes were presented as Claw & MODOC. Zonn occident depth, 2 min must be depth, 3-Stron grigant box width, and 1 min grigant margin below CE. Neeth were randomly shocked into three groups of twelve tyroups. Fig. 9 gains controlling group 3 = flowable reach? Show DENTSHY Claws. All groups were premied with Claudiu St. Borod harms and Bond (Claratay). All samples were then restored using 6.E nano-hybrid Companies soft), thrushed and positived floratorations were thermocyclen for 300 cycles between 5°C and 55°C with a dwell of 30 second and then placed in 0.5%, equenas teach floratorations were thermocyclen for 300 cycles between 5°C and 55°C with a dwell of 30 second and then placed in 0.5%, equenas teach give 50°C 24 hours of 30°C. Samples were sectioned mested study and scored independently by two industria for historical size of a facilities and properties.

Results: A Mutical-Walls lest revessed no statistically significant difference in microleakage between the three groups at the profusal-case surface (ps/) 250. Group 3 was found statistically different in the proximal-case surface. Group 3 yielded the most microleakage at both interfaces white Group 2 showed no axial wall perentration at either interface.

0 = no peretotion 1 a penetotion in example menturn 2 = penetotion at the analysel, 3 = penetration beyond the analysel.

Conclusion: Brilly light-raved and self-cased given construes were more resistant to microleoscope than a florance record on both lectural-case

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#### ABFRACTION LESIONS & CLASS V RESTORATIONS

LATIN WORDS, AB - "AWAY", FRACTION - "BREAKING"

- Pathological loss of tooth structure caused by biomechanical loading forces.
- Static and cyclic flexural overloading of tooth structure ultimately leading to fatigue and failure of tooth structure away from the point of loading.







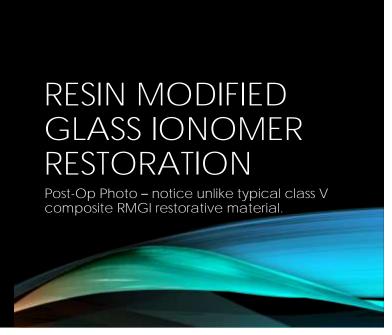
#### Replacing Existing Restorations & Decay

- Resin bonding is mostly due to the intertubular dentin.
  - Deep preparations have less intertubular dentin.
  - · More moisture present due to odontoblastic tissues and fluid
  - Higher risk of post-op sensitivity
  - <u>Use a New Advanced Adhesive and Flowable</u>
- Glass Ionomer (GI)
  - True adhesion to tooth structure
  - Bonds to moist dentin
  - Less technique sensitive
  - Fluoride release
  - Decreased gap formation and cusp deformation
  - Coefficient of thermal expansion is similar to dentin
- No post operative sensitivity
  - Use on dentin & cementum
  - Base out deep areas
  - Place resin/composite on top of GI

Dentin Bond Strengths of Simplified Adhesives: Effect of Dentin Depth. Compendium June 2006, p.340-345
Using Cavity Liners with Direct Posterior Composite Restorations. Compendium June 2006, p.347-351









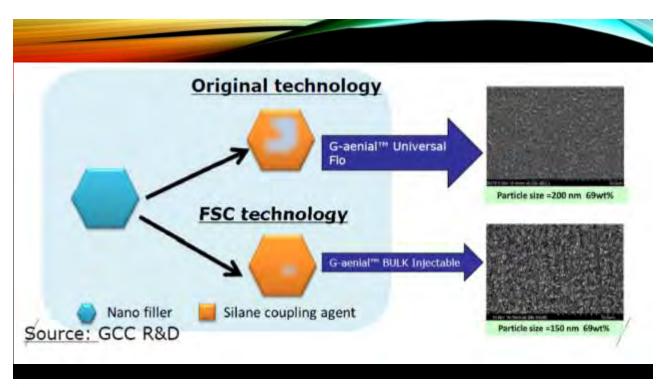


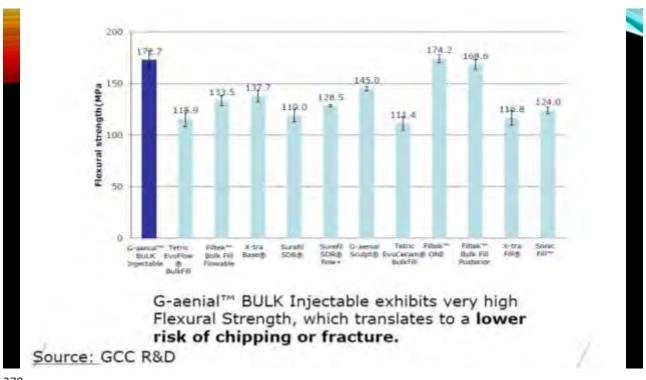


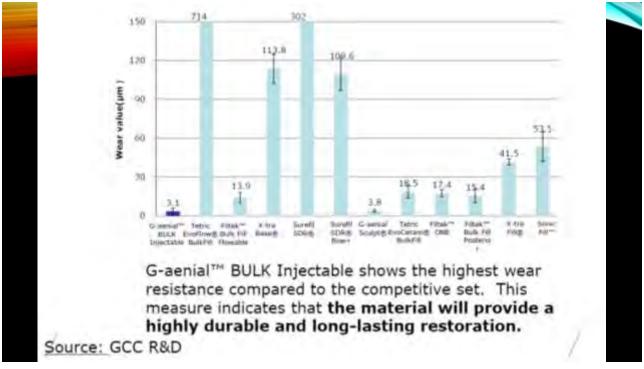




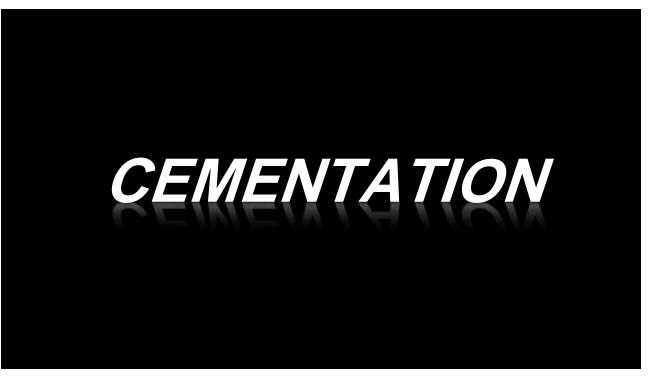






















Check the etch on the ceramic restoration.
(All ceramics except zirconia restorations)

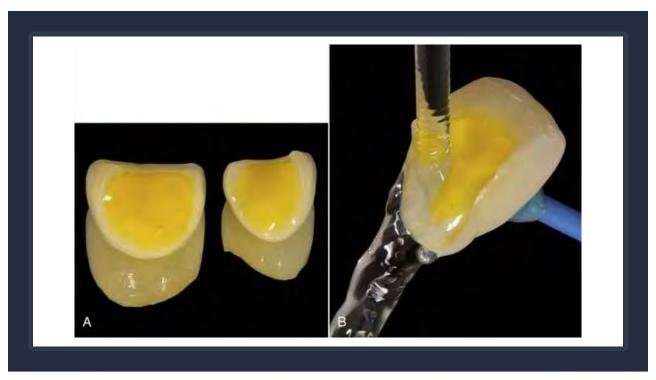


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## PORCELAIN ETCHANT 9.5% HF

- Improves the mechanical bond between porcelain and adhesive/cement by increasing the surface area of the porcelain. The effect is like sandblasting but is more controlled and effective.
- Apply PORCELAIN ETCHANT (9.5% HF) to the dry porcelain surface for 90 seconds. Care must be taken to avoid having the etchant contact glazed porcelain surfaces since these surfaces will lose their gloss. 3. Rinse with a copious amount of water and air dry. The etched surface should appear dull and frosty (if porcelain has a white/chalky appearance, agitate a moist microbrush on the porcelain to remove salt and debris created by etching). 4. Apply one to two thin coats of silane with a brush to the etched internal surface of the restoration according to manufacturer instructions.

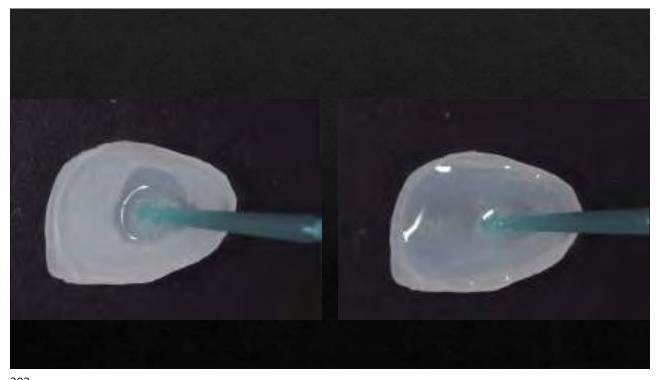












### Ceramic Try-in

- -Clean Tooth
- -Try-in with water soluble try-in paste, not water.
- -Clean & Decontaminate

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#### Whip Mix: Preppies

♦ Preppies™ Flour of Pumice Paste has been specifically formulated for dental professionals requiring a cleaning agent that contains no flavoring agents, oils or fluoride. Pumice Preppies™ leave no residue and are ideal for a variety of operatory procedures







# ♦ OptiClean™ removes all traces of temporary cement and delivers a perfectly clean cementation surface of the entire tooth preparation in literally seconds. ♦ MY FAVORITE











#### **Cement Selection**

- Light Cured Resin Cement
  - ♦ Thin or Translucent Ceramic
  - Enamel or Dentin
  - ♦ Total Etch or Self Etch
  - ♦ Shade Selection

- Dual Cured Resin Cement
  - ♦ Thick Ceramic or Opaque Ceramic
  - ♦ Enamel or Dentin
  - ♦ Total Etch or Self Etch
  - ♦ Shade Selection

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Uni-Etch is a 32% semigel phosphoric acid etchant available with Benzalkonium Chloride (BAC) and designed for etching tooth structure prior to bonding.



304

Select HV Etch is a 35% high viscosity phosphoric acid etchant available with Benzalkonium Chloride (BAC) and is designed for pinpoint accuracy.



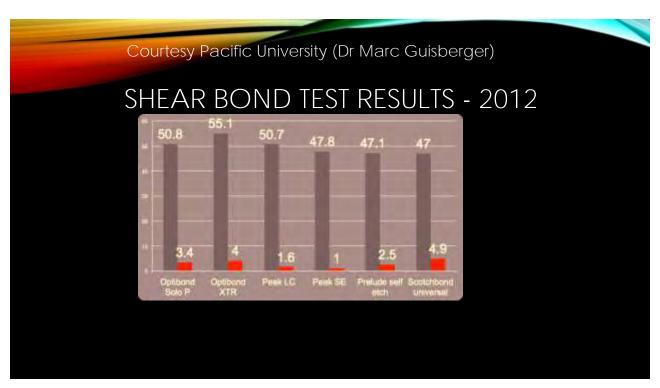


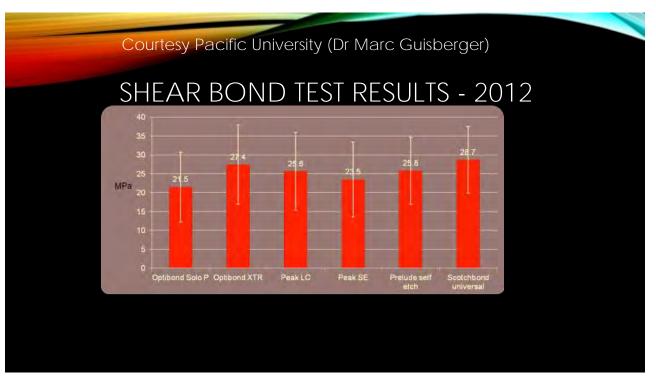
#### What is the best adhesive?

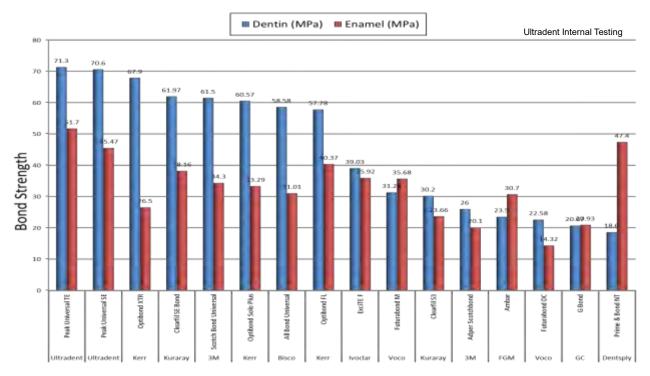














BISCO

#### ♦ Light-Cured Dental Adhesive

All-Bond Universal is a truly universal adhesive it can be used with direct and indirect restorations and is formulated to be compatible with light-, dual- and self-cured materials. The versatility of All-Bond Universal makes it an indispensable part of any dental practice.

- **♦ Unique Benefits:**
- Not moisture sensitive use on wet, dry or moist tooth structure
- Impressive bond strength to ALL substrates
- ♦ Use with ALL direct and indirect restorations (<10 micron thickness)</p>
- Ideal chemical balance for both total- and self-etch adhesion from one bottle
- ♦ Compatible with ALL resin cements (no additional activator required)
- Virtually no post-operative sensitivity
- **♦ Clinical Significance:**
- All-Bond Universal offers the flexibility for total-, self- and selective-etch procedures
- All-Bond Universal is compatible with all light-, self- and dual-cured resin composite and cement materials for all direct and indirect procedures
- ♦ All-Bond Universal works with dual cure resins, NO activator is required

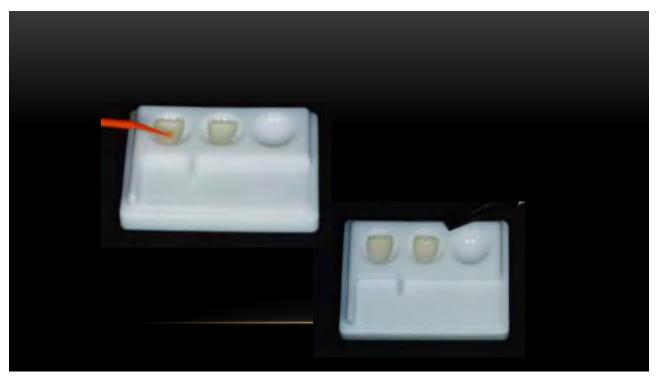




















### Choice 2 Veneer Cement (Bisco)

- Light-cured luting cement designed for cementation of porcelain veneers.
- Color stability.
- Corresponding try-in pastes (sold separately)
- Choice 2 is specifically formulated for color stability (Delta E <1.2\*\*) resulting in high esthetics
- -Highly filled resin cement enhances the overall strength of the restoration
- -Low film thickness ensures veneers are completely seated
- -Corresponding try-in pastes confirm shade selection prior to cementation
- -Choice 2 cement will not change (shade shift) over time, a problem that can occur with dual-cured systems

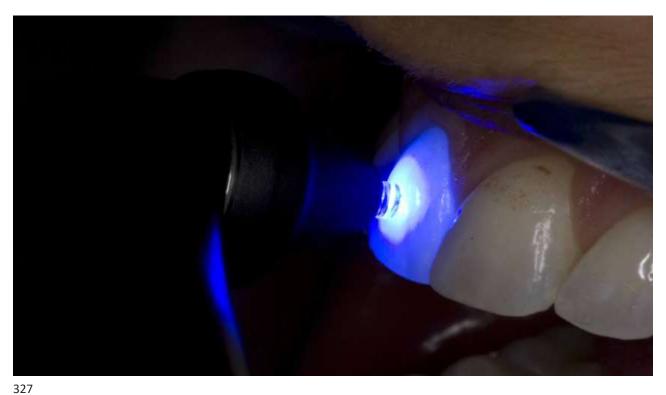


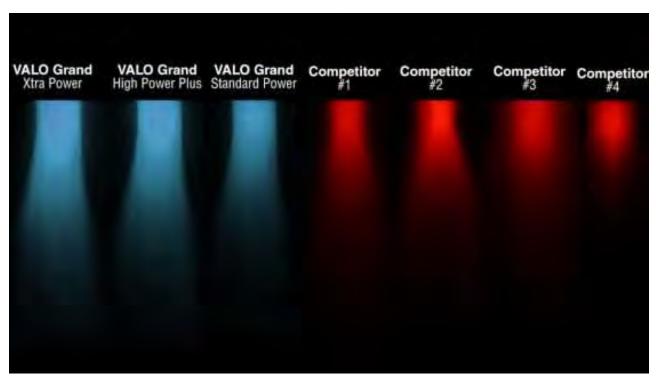




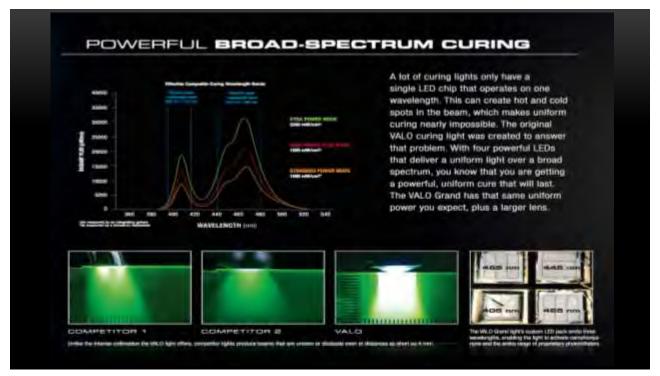


















#### ContacEZ Restorative Strip System (Directa Dental)



The Gentle Saw - Interproximal Cement Cleaner – No Diamond – Double-serrated.



The Heavy-Duty Dental Saw – No Diamond – Double-serrated

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#### ContacEZ Restorative Strip System (Directa Dental)



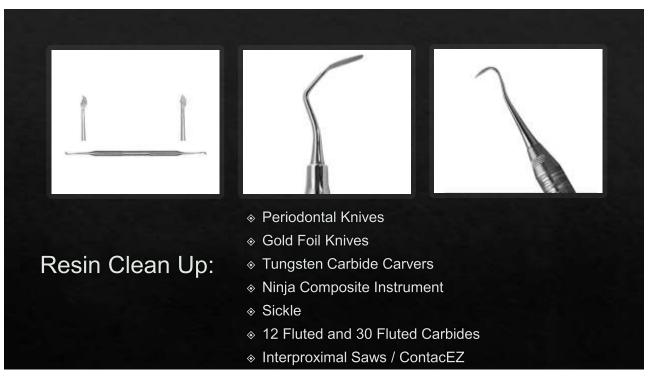
The Proximal Contact
Adjuster with
Sawtooth – ExtraFine Diamond –
Single-sided –
Double-serrated



The Proximal Contact Adjuster – Fine Diamond – Single-sided



The Proximal
Surface Polisher –
Extra-fine Diamond
– Single-sided





#### **ADHESION REVIEW**

- Check the etch from lab (etch if needed)
- Clean tooth/teeth
- Water soluble try-in gel
- Clean and decontaminate ceramic
- Silane/Ceramic Primer
- Isolation

- **⋄** Etch, selective or self etch tooth
- **♦ Adhesive**
- Porcelain bonding resin on veneer
- Light cured resin cement on veneer
- ♦ Clean up

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#### Legal Documentation

Signed treatment plan

I.C. RBAs

Arbitration agreement

Driver's License

Headshot in your office

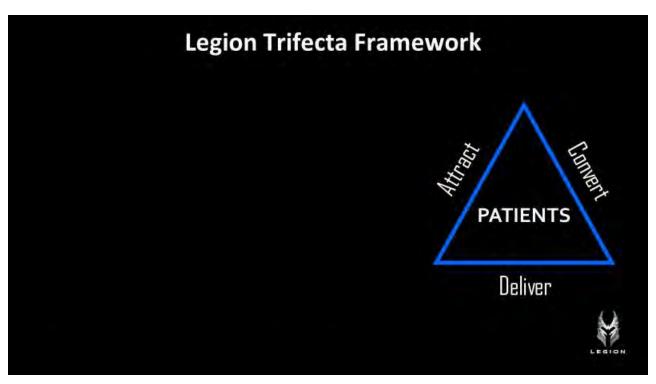
Paid prior to starting appointment

Waxup signed off as approved

Temps signed off as approved

Final appearance at tryin approved giving consent to cement as final.

Document discussion of wearing a clear aligner or night guard and having discussed OSA. OHI. Eating and Habits.









## Ultimate Veneer Virtual & Live Training Online. www.Legion.dentist/armory



- 30 Days of Online Content
- Weekly Live Group Meeting / Review / Q & A
- In Depth Discussion & Technique on Each Step
- Learn About Materials to Use
- Access to 24/7 Group Chat
- Photography Guide
- Legal Documents
- Access to Training Content for LIFE
- 30 CE Units
- Optional Hands On with Cases and Materials



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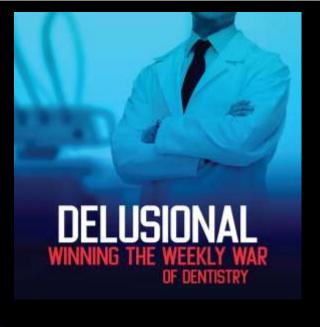
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TODD C. SNYDER, DDS, FAACD

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