



Austin DENTAL
SEMINARS

What's New?:
Materials & Tech That Expedite Excellence

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Intraoral Scanning

Newest available scanners (as of Spring 2021)

iTero Element 5D/Plus by Align Technology

Primescan by Dentsply Sirona

Trios4 by 3Shape

CS3700 by Carestream

i700 by Medit

Best Scanner if:

You want to do clear aligners: iTero 5D Plus

You want to mill restorations: Primescan

You want to make digital dentures: Trios4

You want to do routine fixed pros for less: i700

Increase your office case acceptance and drive up revenue: iTero 5D Plus

Reverse Crown Prep Technique

Break IP contact

Pack first cord

Gingival margin prep

Occlusal/Incisal depth cuts & reduction

Axial Reduction

Finishing & Smoothing

RCP Bur Block- \$99 www.dentalcadcamshop.com COMING SOON

Key burs- depth cutters and 801.021 round diamond bur

Cementation

Clean zirconia surface with 50 micron Al_2O_3 and Ivoclean

Prime ceramics with appropriate primers (silane, zirconia primer, etc)

Best Bets:

Rely X Luting RMGI

Rely X Universal with Scotchbond Universal Plus

Variolink Esthetic for anteriors

3D Printing

Best Bet: Sprint Ray Pro 95 or Sprint Ray Pro 55

Printable dental items: Models, Surgical guides, splints, dentures, provisionals

Design service for splints: dashboard.sprintray.com

Splint material: Keysplint Soft by Keystone Industries

Direct Restorations

Universal Adhesives

- Direct & indirect restoration usage
- Low film thickness
- Bonds to resin, ceramic and metal
- Can dry in wet, moist, or dry environment

Advantages to Universal Adhesives

- Allow for selective etching (enamel only)
- Prevent MMP activation
- Promotes longer term dentin bond
- Etching enamel ensures good enamel bond

Total etch vs Selective etch vs Self etch

Total Etch

- phosphoric acid etch on dentin and enamel

-good bond to enamel
-weakens bond to dentin over time due to MMP activation -promotes more sensitivity

Selective Etch

-phosphoric acid etch on enamel only
-good bond to enamel
-good bond to dentin because no MMP activation and no aggressive etching -less sensitivity

Self Etch

-no phosphoric acid
-weak bond to enamel
-good bond to dentin
-less sensitivity

Josh's Universal Adhesive Best Bets

- 3M ESPE Scotchbond Universal
- Ivoclar Vivadent Adhese Universal
- GC G-Premio Bond

Bulk Fill Composite Resin

Characteristics of composite •

Pain in the ^&* to place!

- Most post op issues
- Fails faster than any other restorative material
- More expensive than alternatives
- Bacteria adheres to it strongly
- *Tooth colored*
- *Allows for more conservative prep*

Real Indications for Bulk Fill Composite

- Posterior direct restorations
- Direct restorations in primary teeth

Strategies for making composite bulk fill-able

1. New, novel monomers that reduce shrinkage to sub 2%
2. More aggressive photo initiators
3. More translucent to allow deeper penetration of light

Your curing light is the most important piece of equipment in your office. Make sure you test them weekly with a photometer and keep a log of results.

In today's adhesive and bulk fill dentistry you need a curing light that has a high output of power (over 1000mW/CM²) and a broad spectrum (380-520 nm) Josh's Curing Light Best Bets

- 3M ESPE Elipar DeepCure-S (\$1641.50)
- Ivoclar Vivadent Bluephase Syle (1281.95)
- Ultradent Valo Grand (1749.99)

Josh's Bulk Fill Composite Best Bets

- Tokuyama Estelite Bulk Fill Flow (\$20.98/gm)
- Ivoclar Vivadent Tetric Evo Ceram Bulk Fill (\$21.32/gm)
- 3M ESPE Filtek One (\$21.21/gm)

The Stamp Technique

- Need intact natural occlusal anatomy
 - Must be 4mm or less in depth
 - Need to make the stamp before you start! -
- Need four hands to make the stamp -As always...good isolation is a MUST!

Matrix Systems

Segmental matrices are a must if using resin composite in the posterior.

Josh's Matrix System Best Bets

- Garrison Composi-Tight 3DXR Fusion
- Ultradent Triodent V3/Dentsply Palodent Plus