

How do you commit time, resource and investment capitals effectively in hope to generate a profit from the idea of being "Modern"?

1HourTooth Coaching is a team of experts that can assist you to be "Modernized."





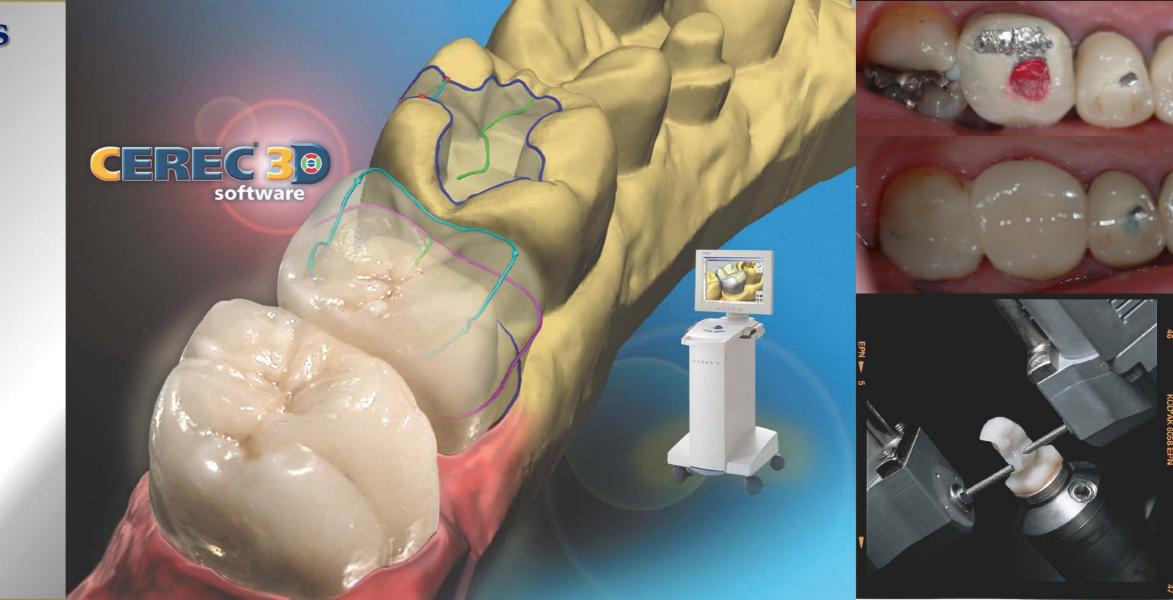
Our greatest weakness lies in giving up!

The most certain way to succeed is always to try just one more time...

- Thomas Edison

Summary of Topics

- CAD/CAM the most powerful Practice Builder
- What is CEREC?
- CEREC Requirements
- 3P's of CEREC
 - Preparation
 - Powdering
 - Pictures
- Design
- Cementation
- Adjustments
- Advance Training



Let's revisit: Why CEREC?

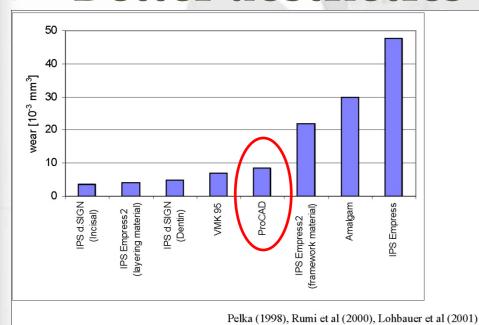
- 1 visit same visit = WOW your pt's
 No impression, No year pt's
- Empress Aesthetic, tooth-colored
 Leucite-remolecal-stength & durable
- Manufactured ceramic blocks = uniform thin Gerial OI

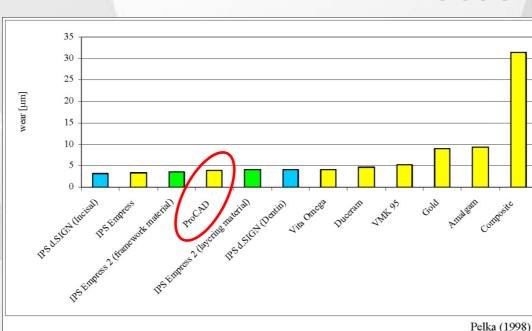
no air pockets
Fried Tection Tistcture
anded restoration



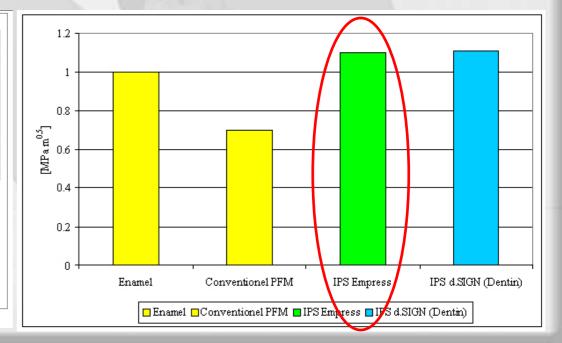
Why EmpressCAD?

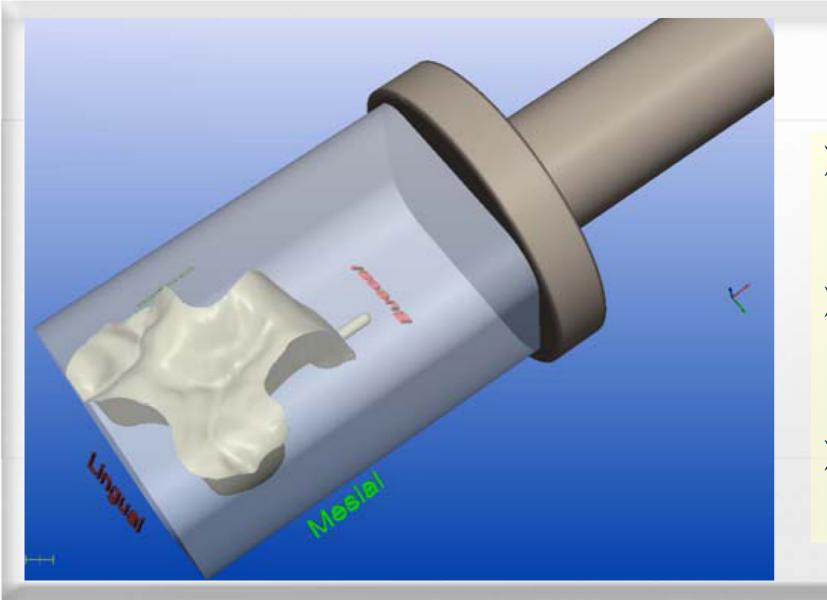
- > Most reliable
- > Better aesthetics





- > Friendlier to opposing tooth structure
- **Better fracture resistance**





Characteristics of all ceramics (Potential Problems)

- Relies on supporting tooth structure remember your weakest link
- Restoration must be bonded with a Resin-Modified Glassionomer

Restoration shall only be adjusted for occlusion after it is fully cemented

CEREC Requirements Always keep this in mind

➤ Garbage in = Garbage out!!

➤ House is only as strong as its foundation

Always look out for the weakest link

Which one will have a better prognosis?



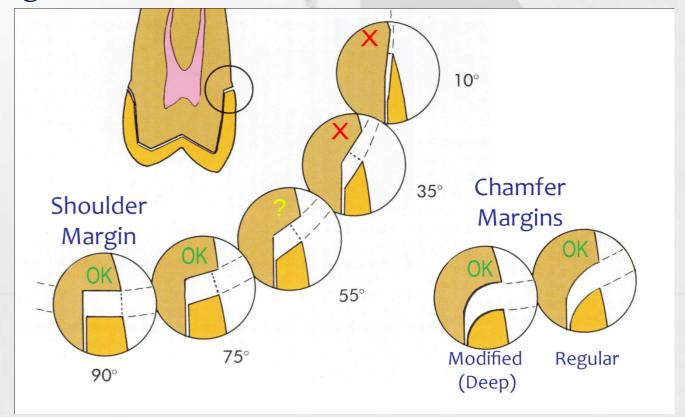


3 P's of CEREC

- ✓ Preparation
- √Powdering
- √ Pictures

Preparation

Margin: Shoulder or Modified Chamfer **ONLY**



My Choice of Burs







Preparation no different than routine PFM's

- Consider pre-existing conditions
- Consider endo status of tooth
- Consider status of adjacent teeth/area
- If tooth is endo'd, consider the need for a post

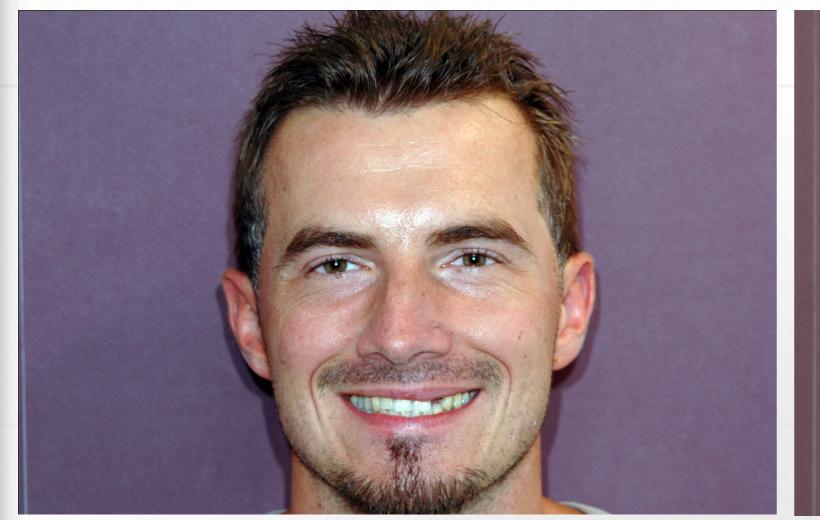














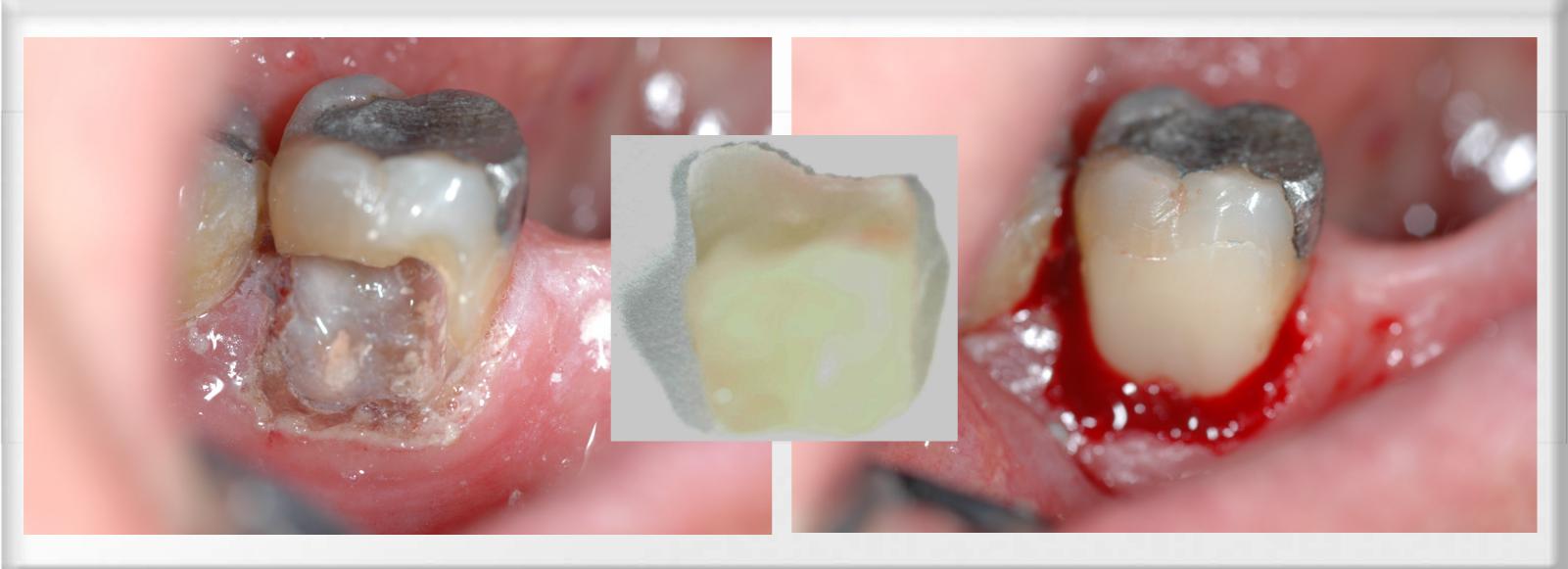
Post Considerations

- All posts **MUST** be bonded (Weakest link)
- When tooth has an existing post, proper integrity must me assessed

Build-up Considerations

- Build-up's can be incorporated into the CEREC restoration (Weakest link)
- All Build-ups **MUST** be bonded







Types of Prep's







Types of Prep's



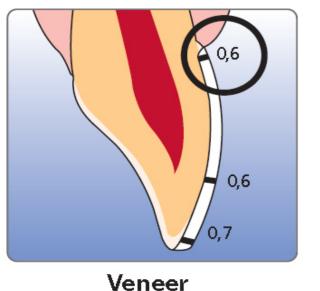


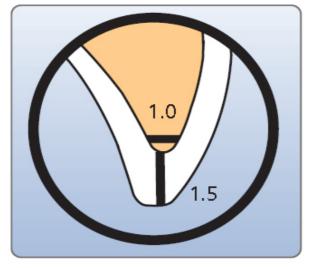


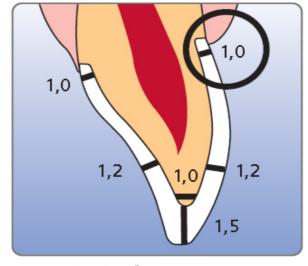
Types of Prep's







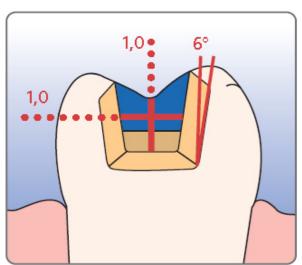


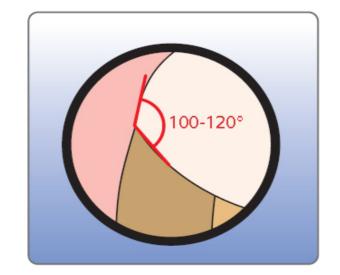


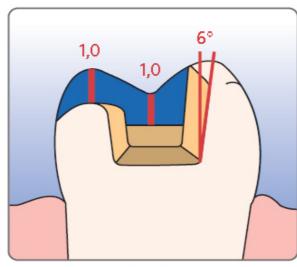
Anterior crown

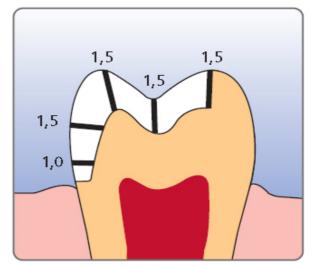
Preparation Parameters Recommended thickness

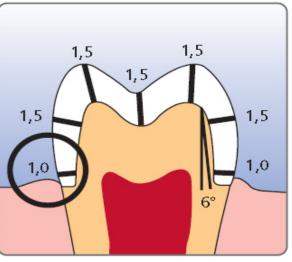
no different than any all-ceramic restorations









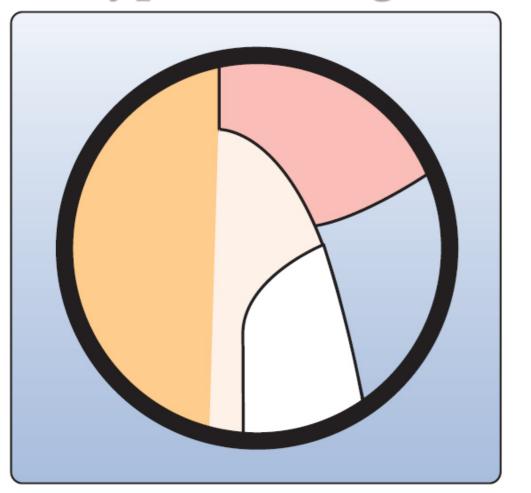


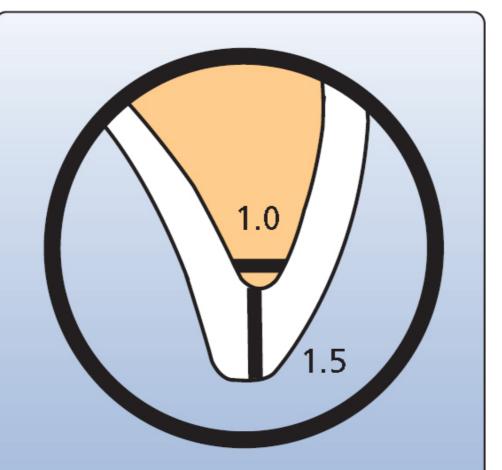
Inlay

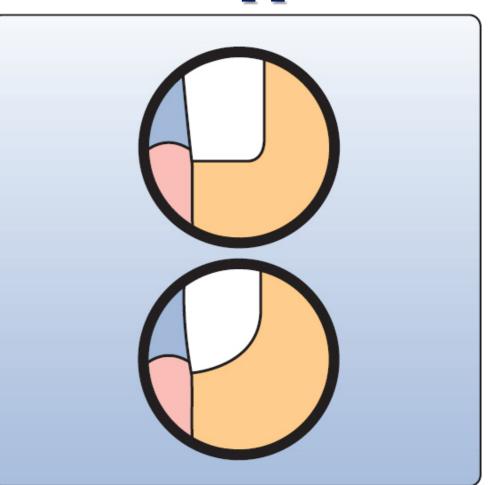
Onlay

Partial crown Posterior crown

Types of Margin that all ceramic restoration likes - well supported

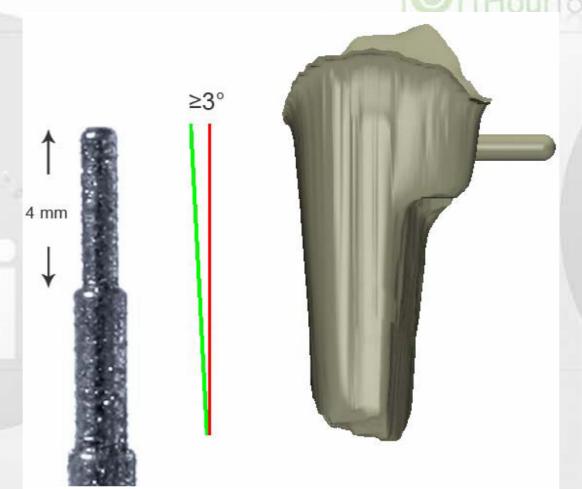


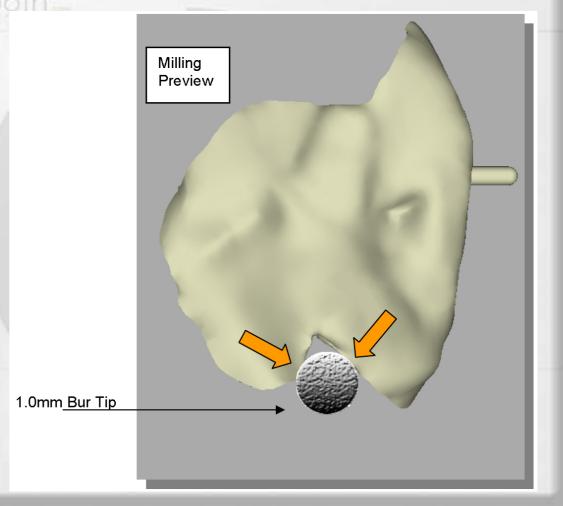


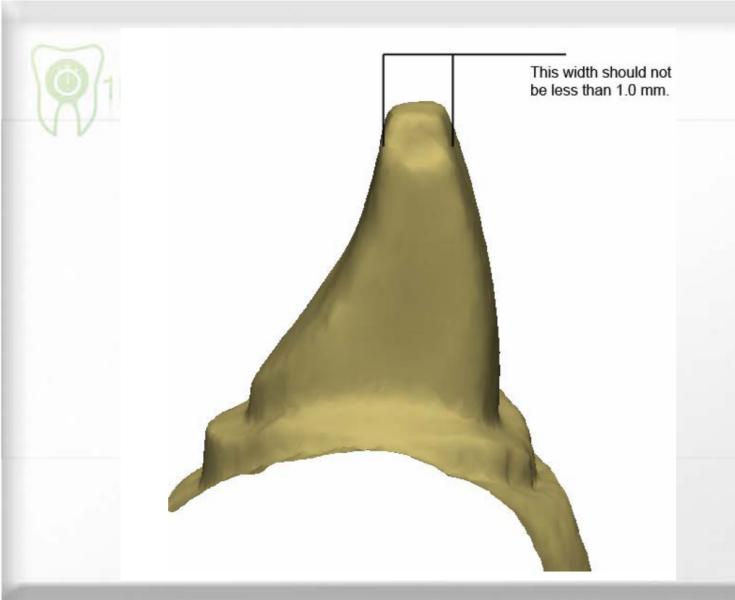


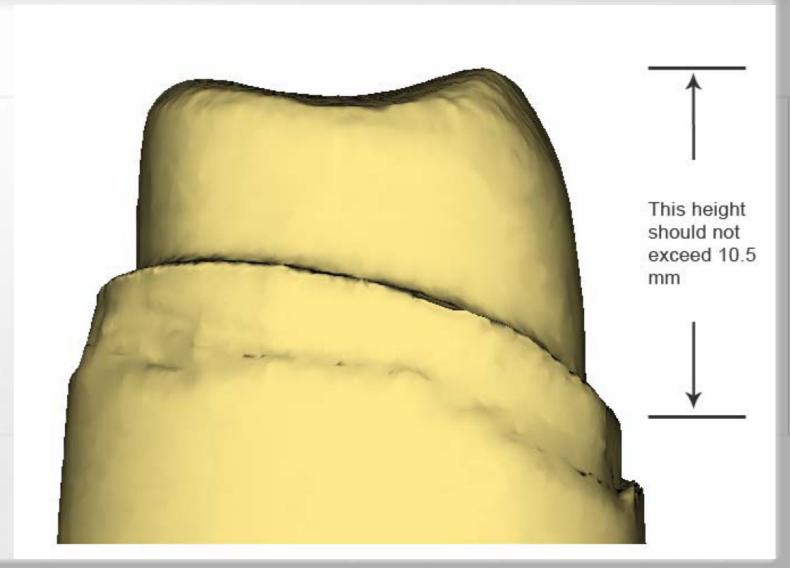
Preparation Considerations - Instrument Limitations



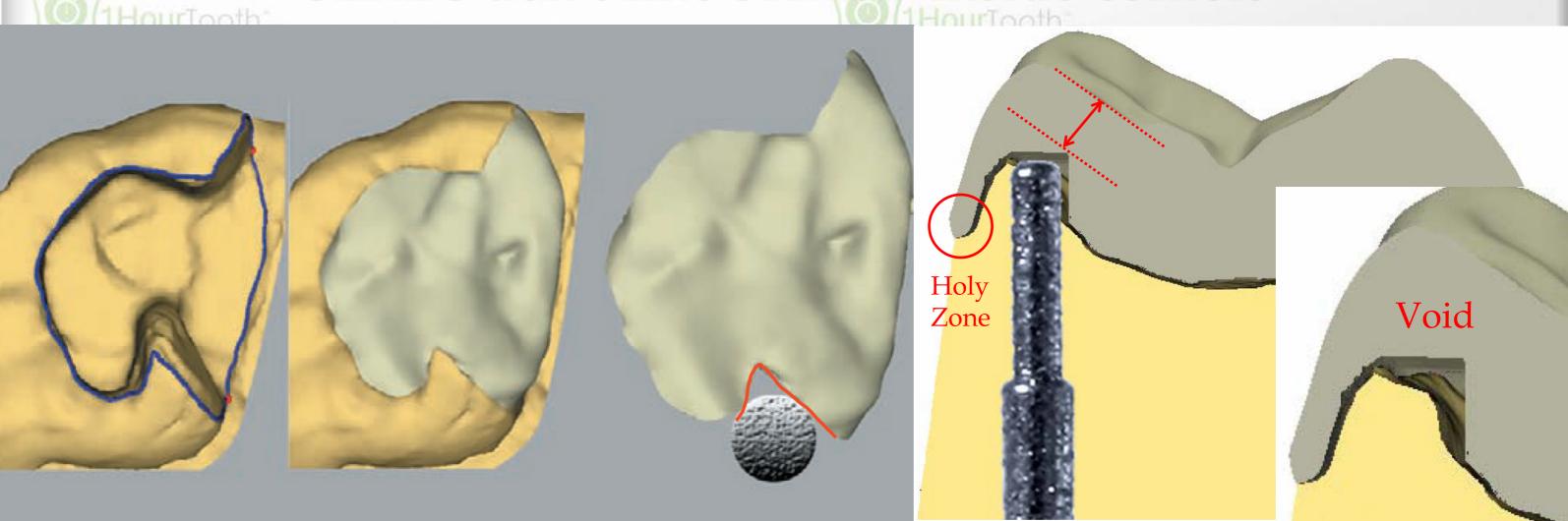






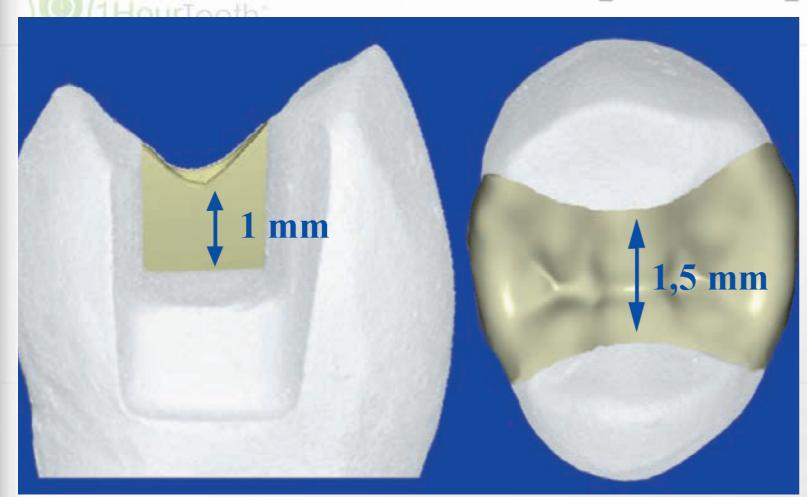


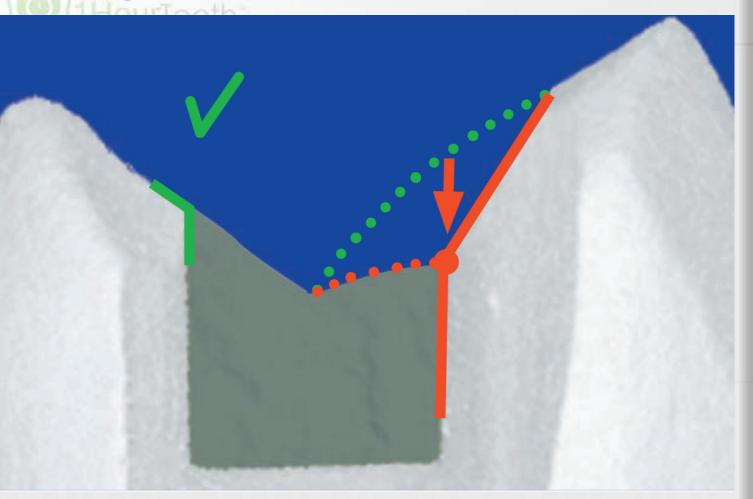
CEREC don't like SHARP inside-corners





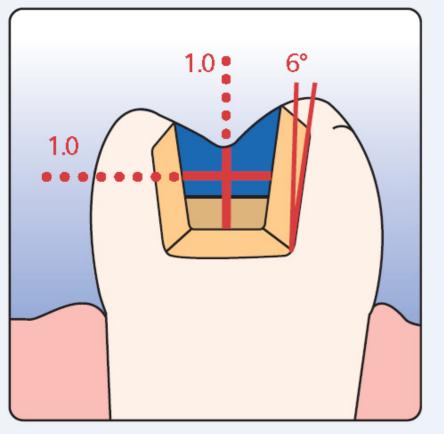
Special topic: inlays

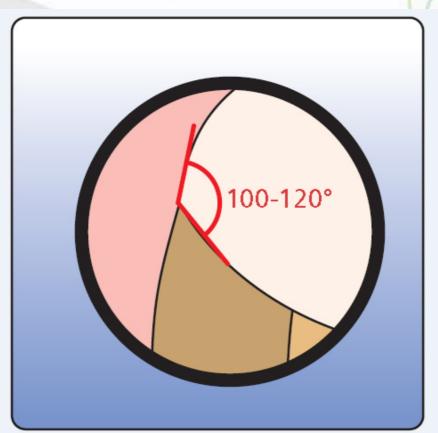


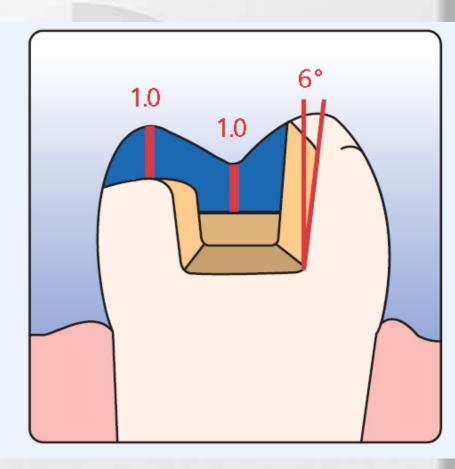


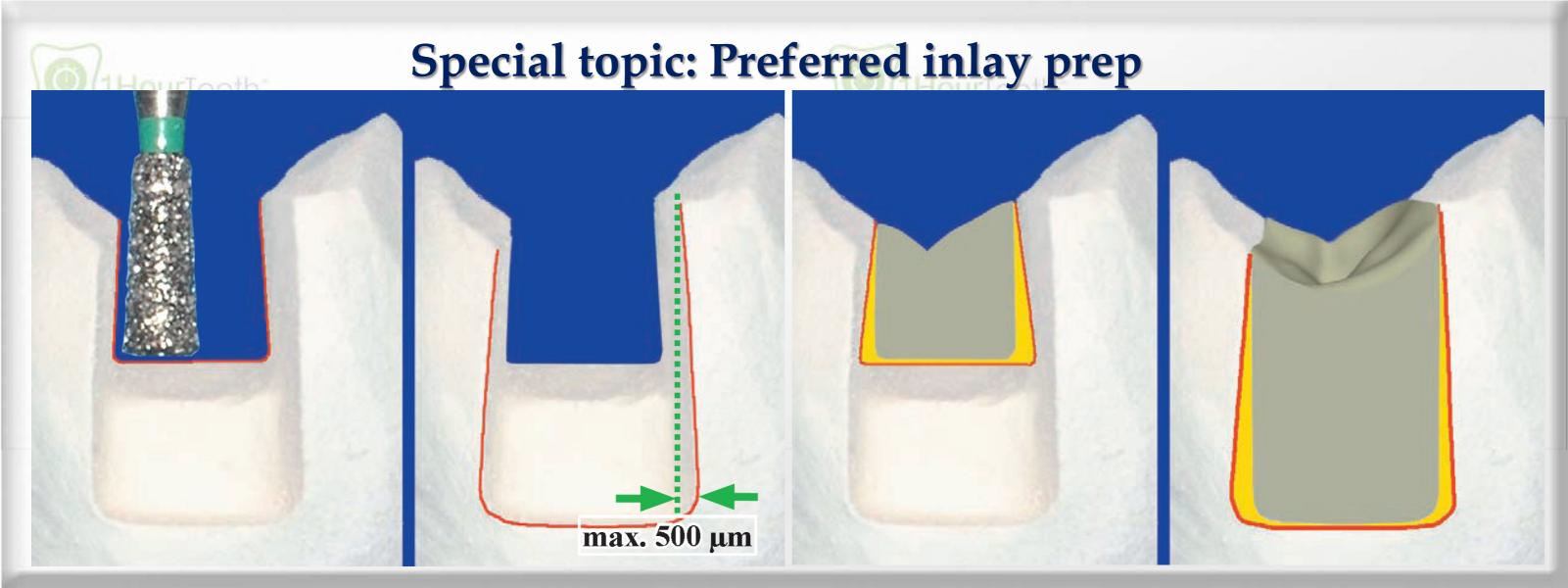


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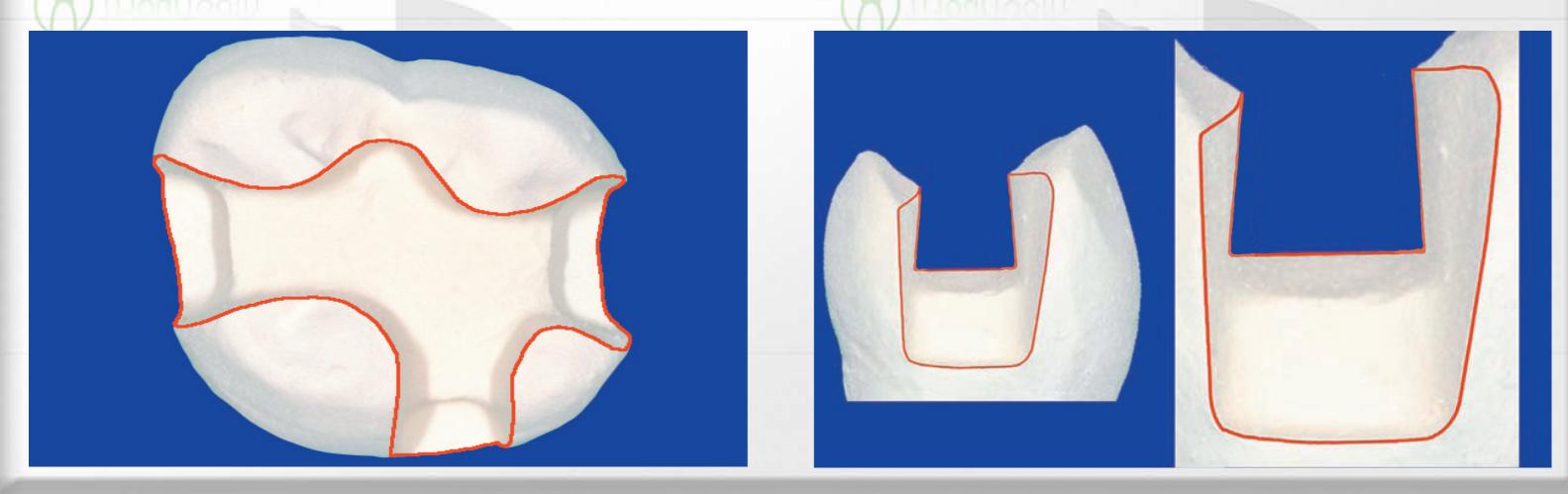










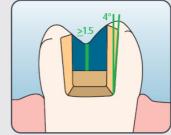


Questions on Preparation?



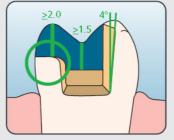


INLAYS

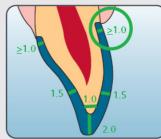


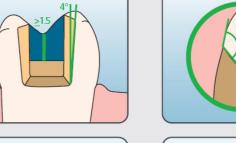
Dimensions in mm



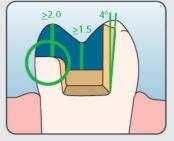


FULL CROWN

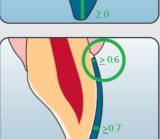




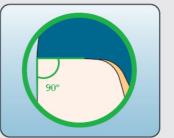


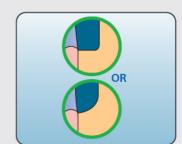




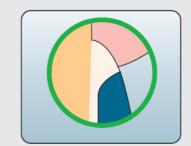


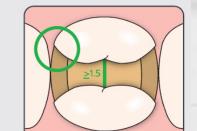


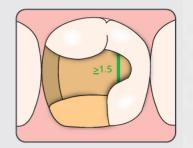


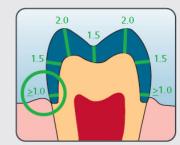


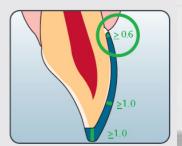












) 1HourTooth=

Last thing - for preparation: DRY field

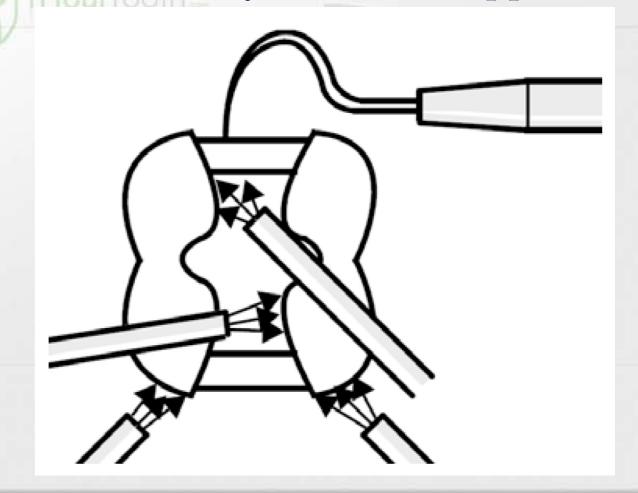
- What ever it takes, just like PVS
- Better field = Better images
- Better images = More predictable results
 - Thing I like to use are:
 - Dry Angles
 - Expasyl Kerr
 - ViscoStat Ultradent
 - Impression Chord various
 - Hemodent various
 - Laser Diodes only



Powdering

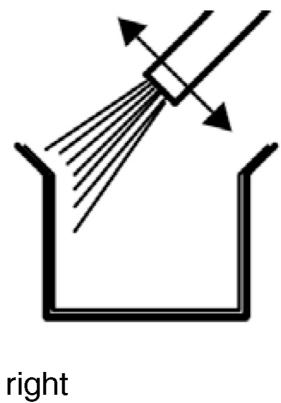
- Purpose: reflective powder (TiO2, SiO2) help camera to measure distances
- Goals:
 - Thin and even coat on detail area
 - Cover at least 1 tooth Mesial/Distal
 - Minimize clumping
- Contaminants:
 - Saliva (water)
 - Blood

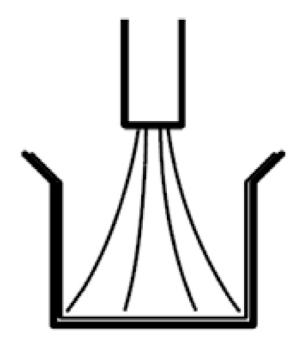
• Clean and Air-dry area before application





• Keep tips moving at 10~15mm away

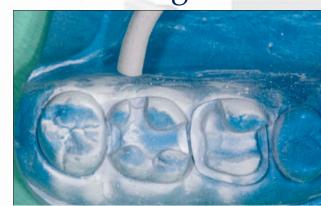




wrong

Tip: Start spraying away from preped area, then sweep over the area in question

• Then lingual



• Start with Buccal







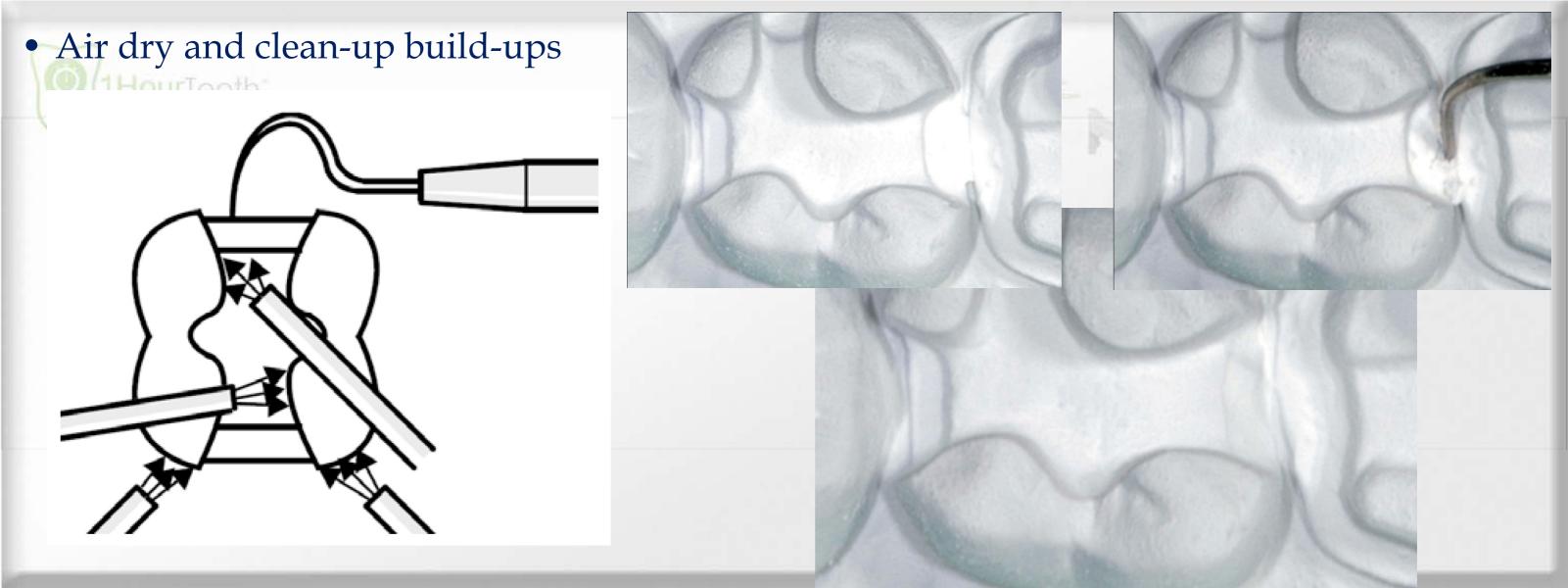


• interproxymal



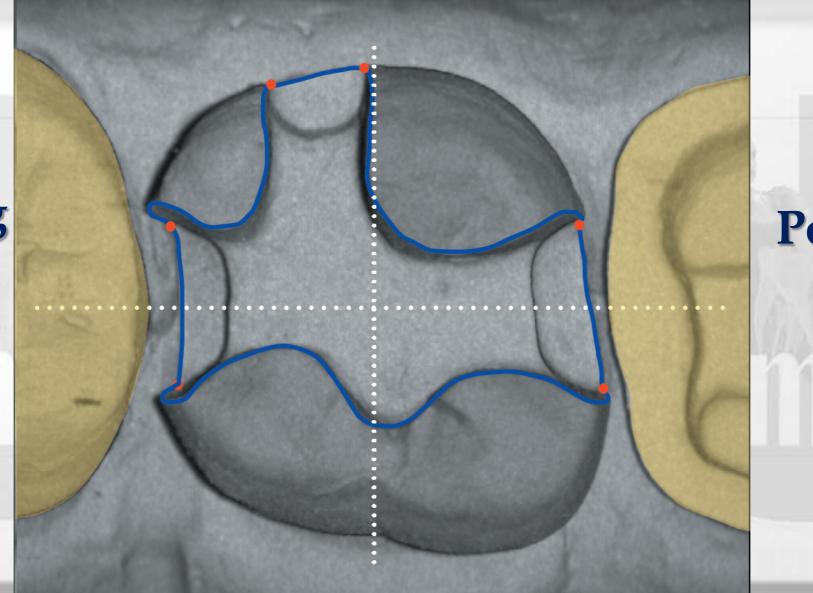
Finish





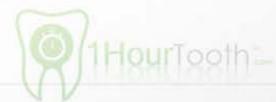


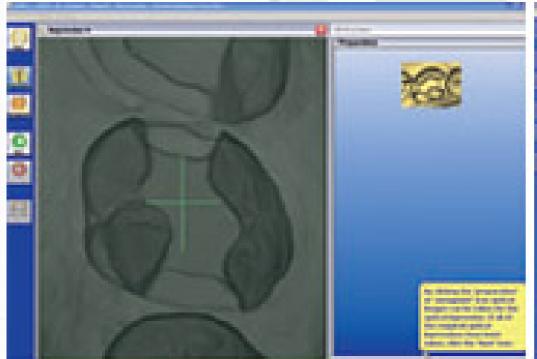
Perfect Powdering

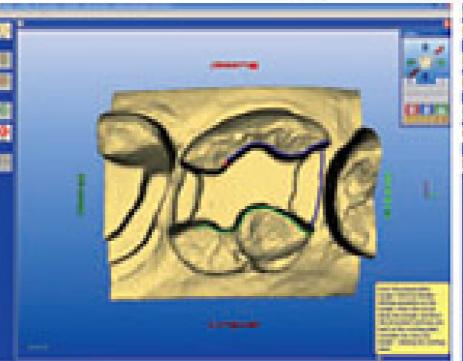


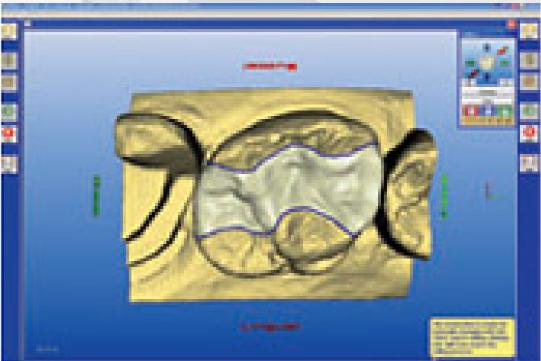
Perfect Pictures











Place the crosshair on to the center of the prep

Pictures

- Camera: 2 components
 - Optical

1HourTooth

- Infrared (need 2/10th of sec to capture)
- Purpose:
 - Digital impression of area in question
 - Used to take the impression of prep area
 - Used to take the impression of the bite

- Works just like intra-oral camera
- Your trainer will assist you with this



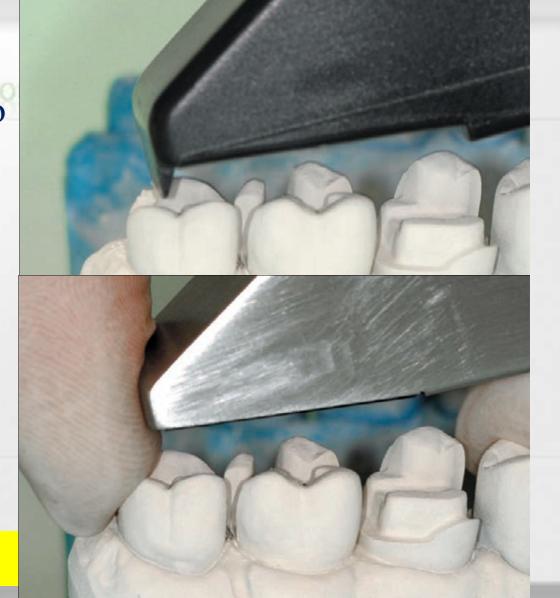
Pictures

Use proper finger rests

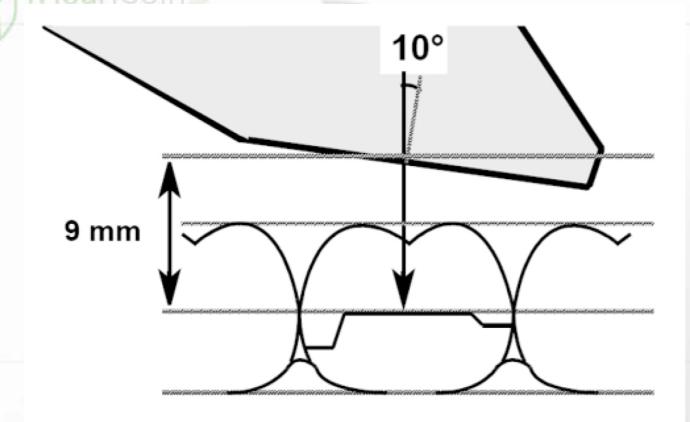
(1HourTooth:

• Use camera rest too

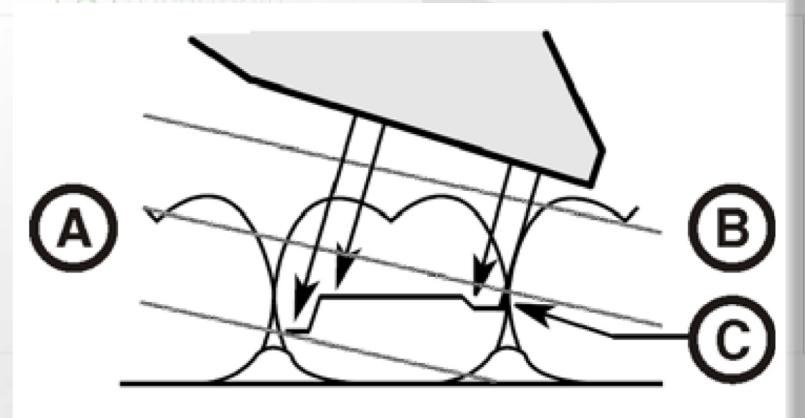




Things to remember: Distance



Angle: If camera angle is too steep

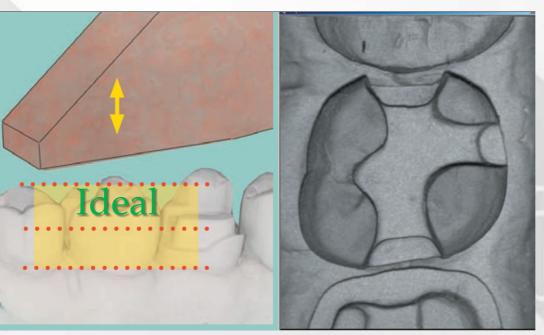


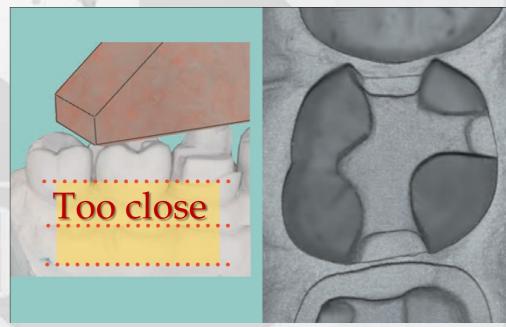


The distance issue

1HourTooth =









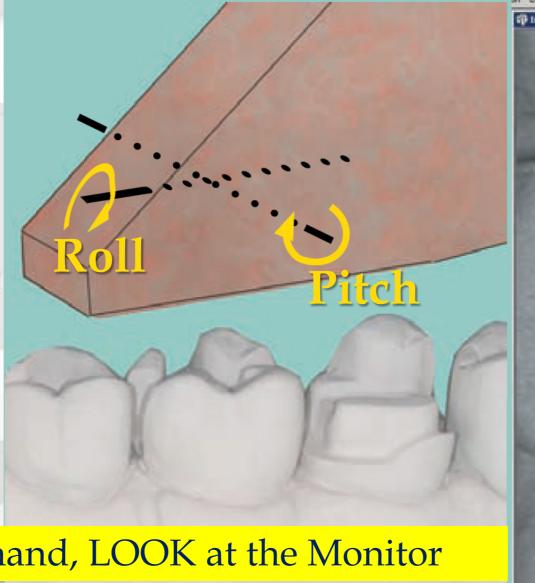
Positioning guide will help you in proper camera placement

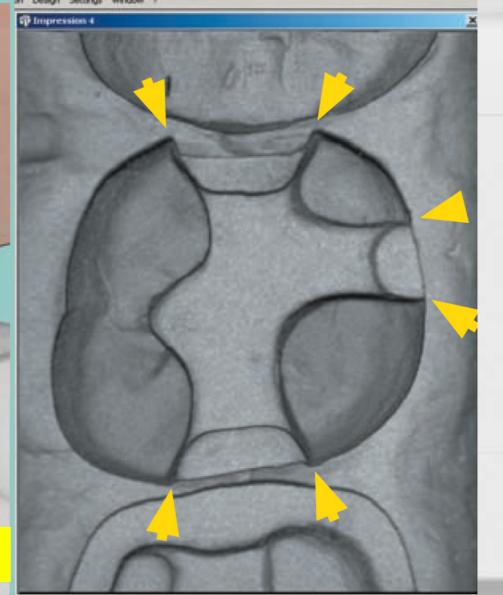
Tip: Keep your eyes on the Monitor





What do you want to see...







Pitch Roll

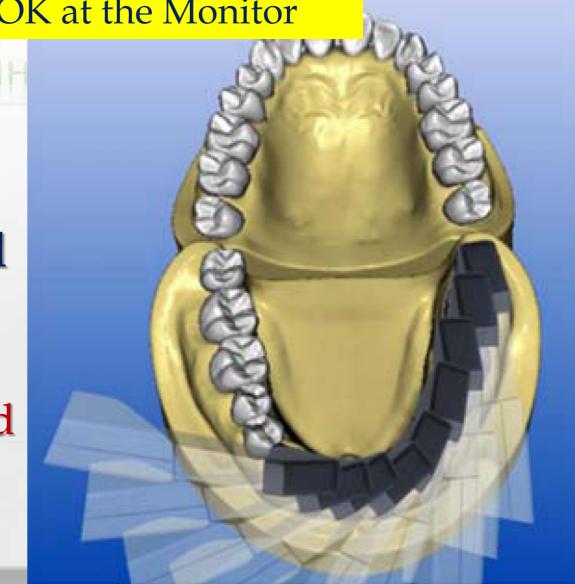




Picture sequence

From distal to mesial

Walk forward 1 tooth at a time



1HourTooth

3 pictures min.

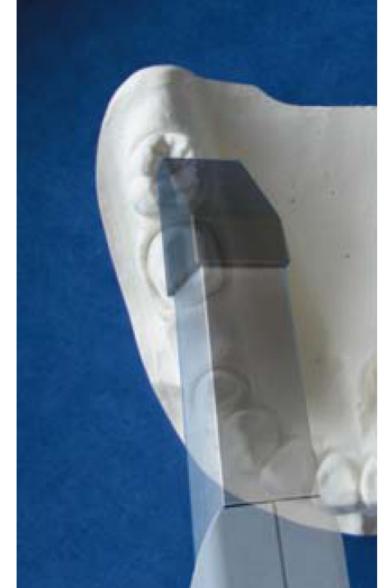
Overlapping 30% of pictures

for proper stitching

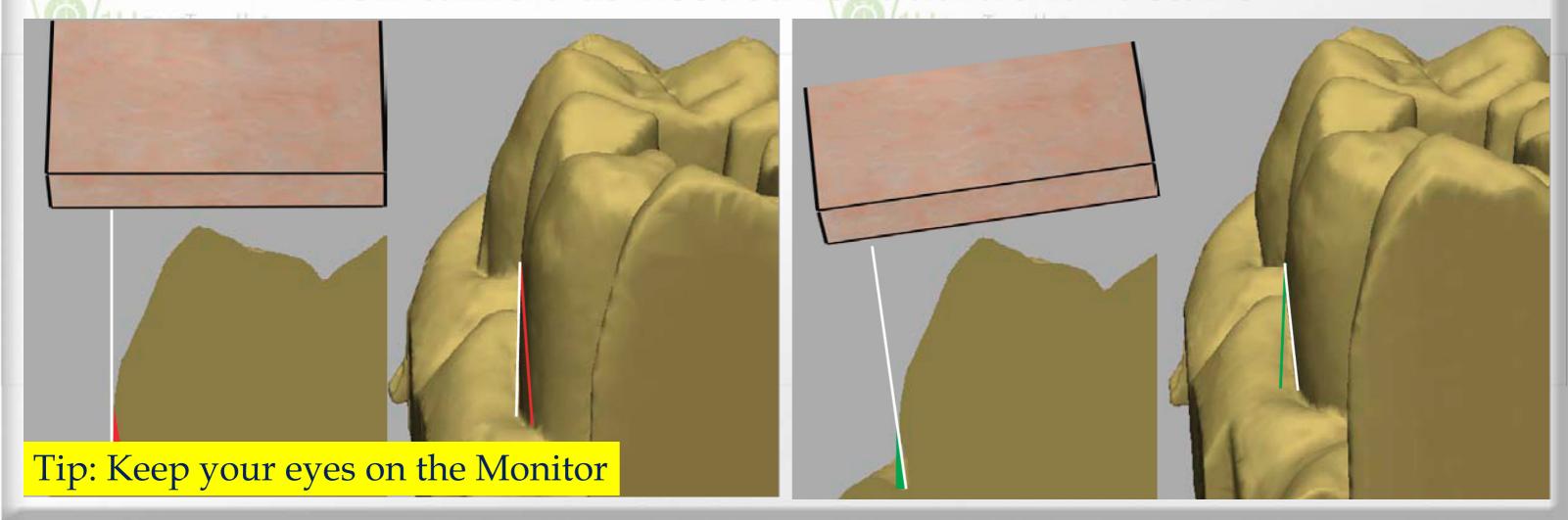
Tip: Keep your eyes on the Monitor



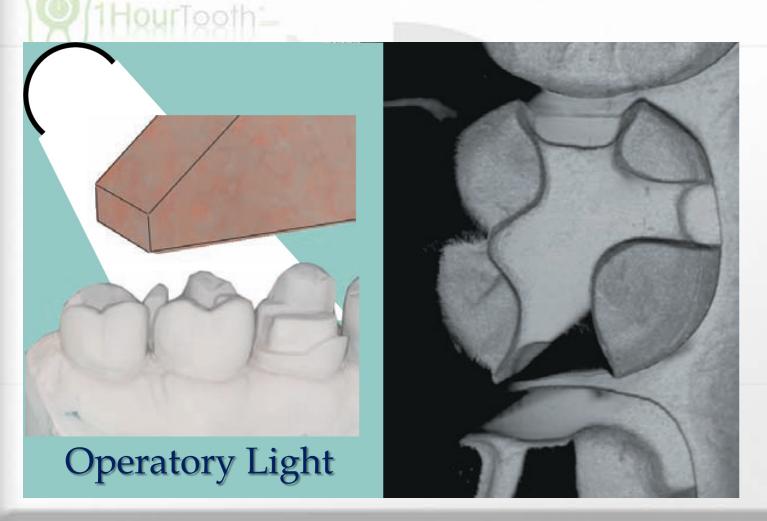


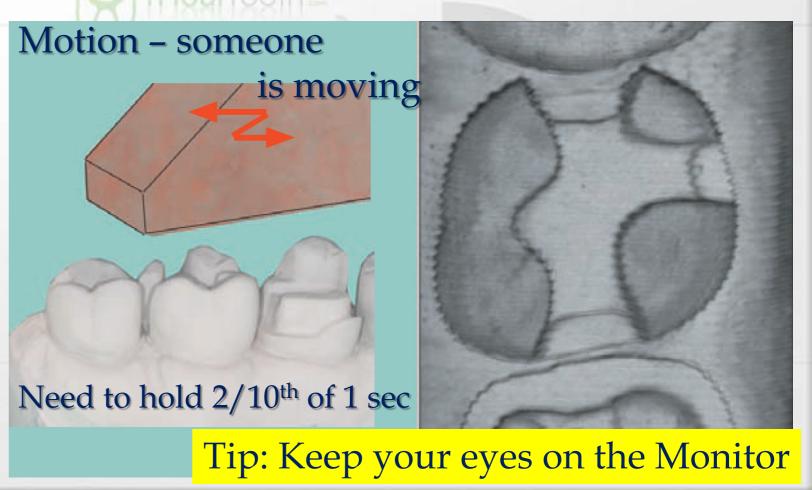


Roll camera as needed for additional details



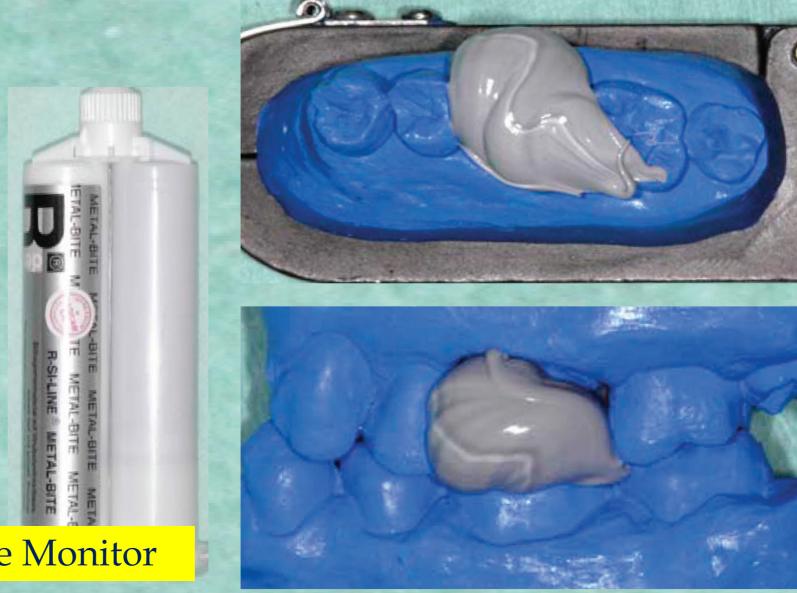
Troubleshooting bad images





Bite Registration

- Remember: Camera need to compare to stitch images together
- Place bite material on prep'd tooth ONLY
- Again, need to take a min. of 3 pictures





1HourTeeth

Why 1hourtooth?

- Because right now, you will leave the operatory room and ...
 - Have a cup of coffee
 - Trade some stocks
 - Do some reading
 - See another patient
 - It's up to you, the restoration should be ready to cement within 20 minutes or so.







Tip: Do NOT look at your hand, LOOK at the MONITOR

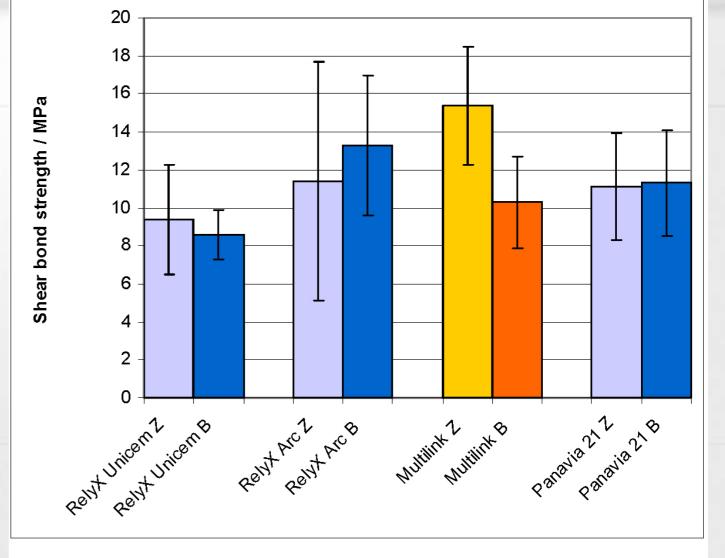
The Finale - Cementation

- Remember we are Bonding CEREC
- Resin-modified Glassionomers ONLY

NEVER check occlusion until restoration is fully bonded -it's an ALL ceramic restoration!!!

Why Multilink?

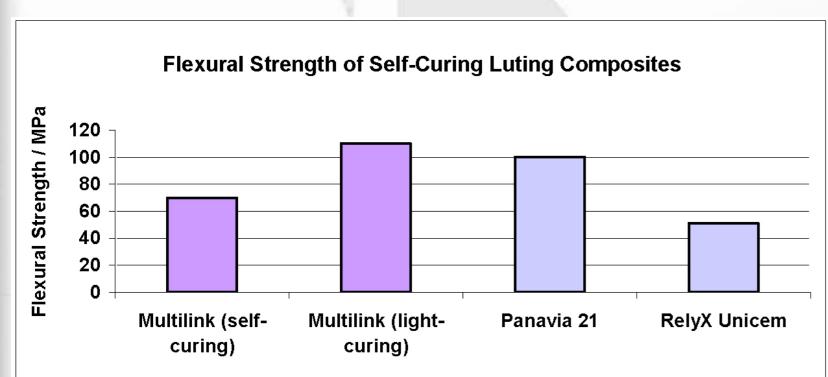
• It's all about physical properties....

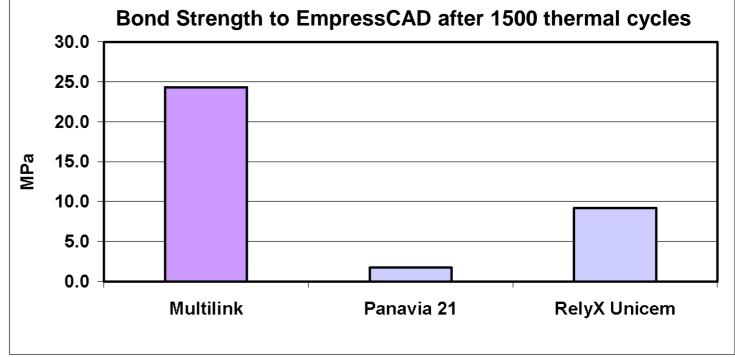


Shear bond strength after 1,500 thermocycles between 5°C and 55°C









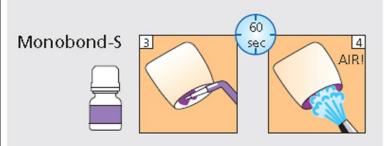
Munoz, Loma Linda University

Restoration



Pre-treatment of ceramic restorations:

According to manufacturer's instructions. E.g. IPS Empress CAD: Etch for 60 sec with IPS Ceramic etching gel (hydrofluoric acid). Follow safety instructions.



Dentin/Enamel

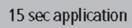




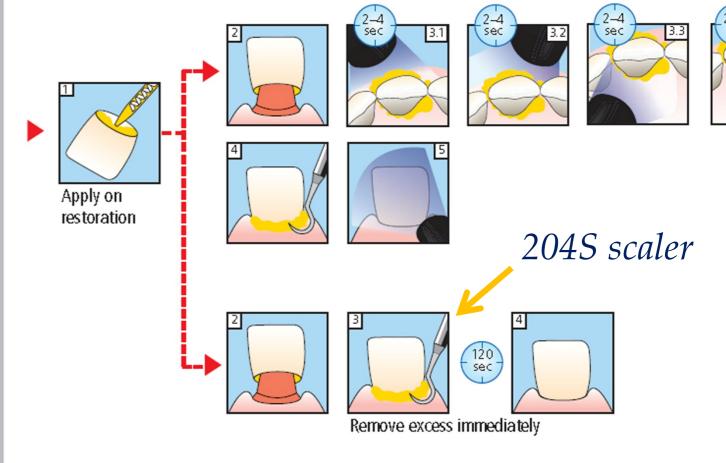








Multilink step by step



It's time to WOW your patient...

- Last 2 steps: -- cleanup
 - Check occlusion
 - Intra-oral polish if needed



Recommend: CeraGlaze polishers by NTI/Axis



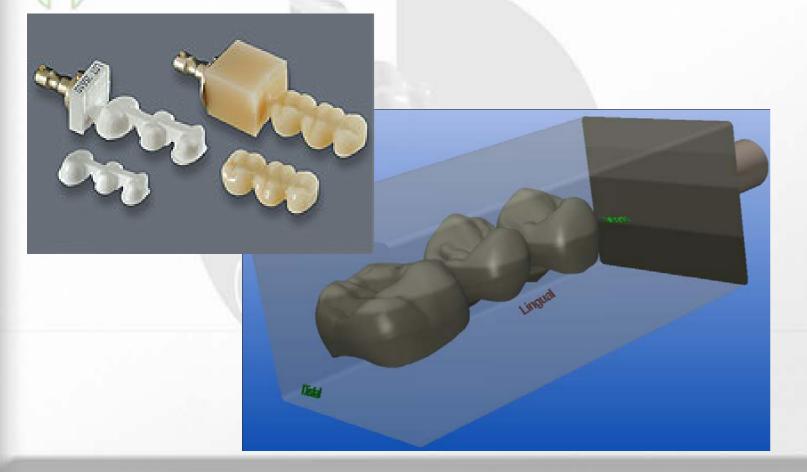








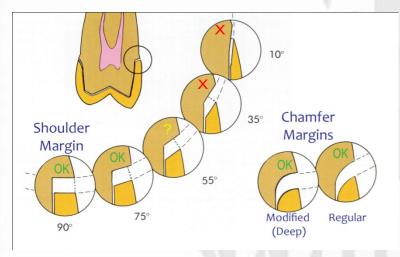
What's next?



Cheer + Celebrate

- Your patient will be as excited as you are
- Cheer + Celebrate with them will encourage word of mouth referals
- This is what I called the WOW affect
- Start with simple cases and give yourself ample amount of time
- Then begin to challenge yourself
- Stay tune for Advance CE Classes

Things to Remember.... Always look out for the weakest link



Garbage in = Garbage out!!

➤ House is only as strong as its foundation



Have Fun!! and let's start an 1HourTooth Day!!

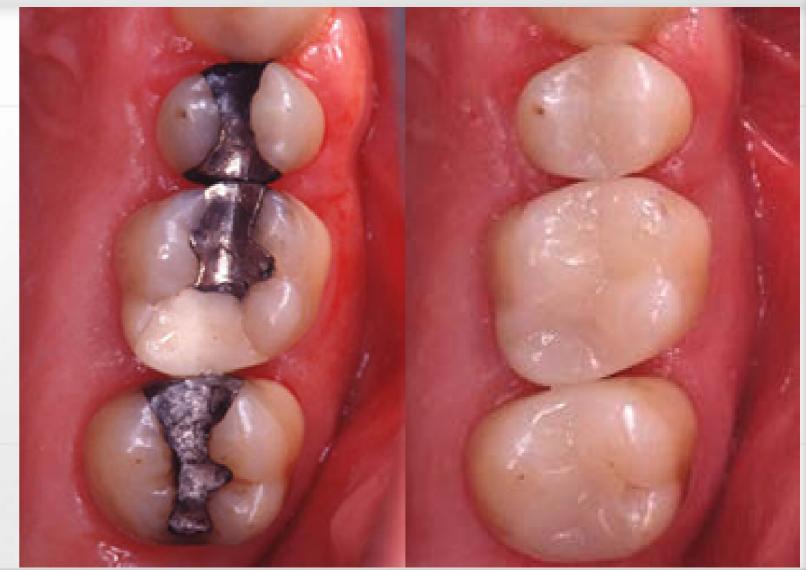




Case discussions:













































Our greatest weakness lies in giving up!

The most certain way to succeed is always to try just one more time...

- Thomas Edison



Integration = simply put with some help, should be painless