

Members Present: Drs. Erica Teixeira (Chair), Omar Alburawi, Manuel Gomez, David A. Jones, Theodoros Katsaros, Charles W. McBrearty, Ivan Medin, Rodrigo Rocha Maia, Marcos Vargas, Ron Elvers, Lily T. Garcia, Gracie Deery (D3), Morgan Lauer (D2)

Absent: Drs. Piriya Boonsiriphand, Leo Marchini, Patty Meredith, Kyle Stein, John Syrbu, and Kyle Nicholson (D4), Monzer Shakally (D1)

Guest: Dr. Hanan Elgendy

Meeting called to order 12:05 p.m.

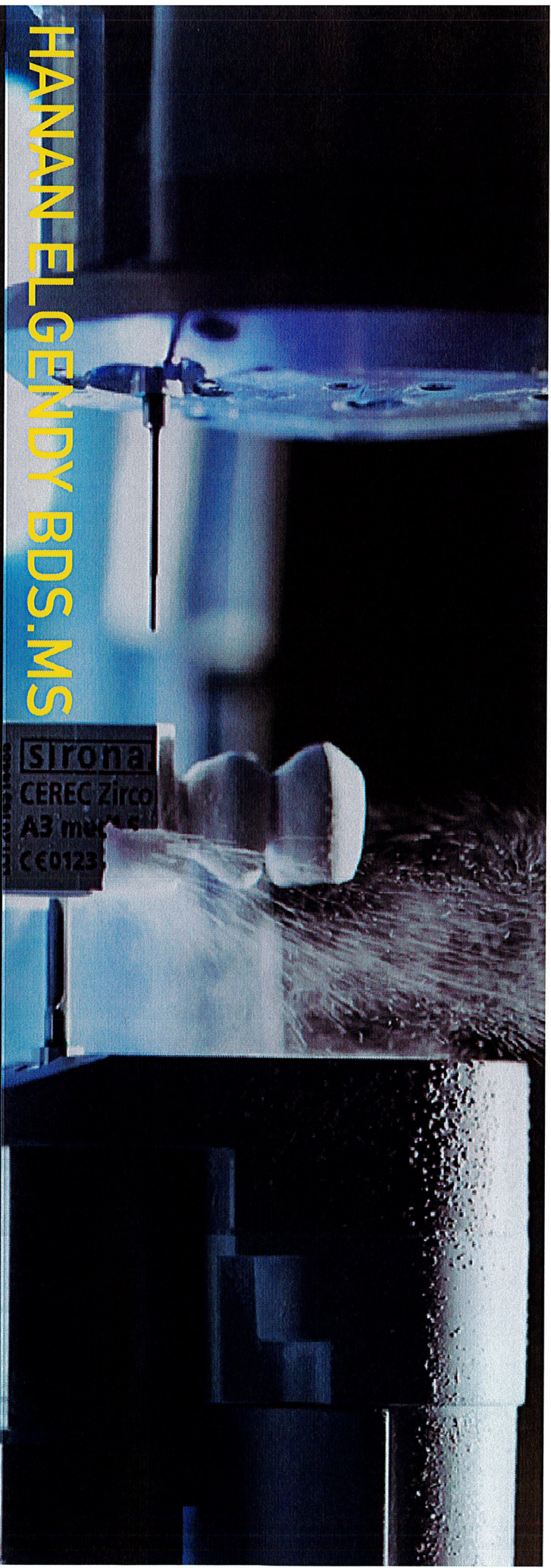
- I. **Approval of November 14, 2018 minutes** – Dr. E. Teixeira
MOTION: to approve the minutes as submitted and seconded.
MOTION APPROVED.
- II. **Department of Periodontics Purchase Request** – Mr. Chuck McBrearty
The scanner vendor provided training on February 1, 2019 and provided a scanner on a three-month loan period. After 3-month trial period, Dr. Avila-Ortiz will consider purchasing the scanner. There are no security concerns.
- III. **Update on Additional CEREC purchase** – Dr. E. Teixeira
 - A. Recent purchase: five (5) Omnicams and sleeves were installed and operational. Three new Omnicams are located on the third floor (room S306), two on the second floor (S262), and the previous Omnicams are in the Simulation Clinic. Locations were chosen based on usage although location can be changed based on usage.
 - B. Scanner sleeves will be available for checkout through both the 3rd floor and 2nd floor dispensaries.
 - C. AxiUm has been updated to allow reservation of scanners for use. Scanner sleeves should remain with the cart in the simulation clinic to avoid sensor problems.
 - D. Current hardware is outdated on previous Omnicams based on a speed test conducted. The new scanner processed a scan in 1 minute 30 seconds and the same scan took 8 minutes 30 seconds on the older scanner. Upgrades could improve speed. CEREC offers an upgrade for \$3000, however it is unclear what is included in the upgrade. The older scanners will work for the Simulation Clinic usage limited to basic scanning; anything more complicated might not work at desired speed.
- IV. **Work Group for Digital Tech Info on the Intradent** – Dr. E. Teixeira
 - A. About 95% of the Guidelines document is complete. Information on sterilization and infection control are lacking. Step-by-step instructions are being created for each Omnicam and available through the Intradent.
 - B. A Tab can be created on the Intradent within the “Education” heading, as well as other locations to allow students and faculty ready access to the information.
- V. **Presentations on Digital Integration** – Drs. Elgendy, Boonsiriphand, (Presentation/Handouts)
 - A. Dr. Elgendy presented the use of digital technologies in the Operative Dentistry curriculum. She highlighted current use and assessments. It is not known how scanner availability will impact students next academic year.

- B. Dr. Alburawi discussed digital technology integration in Prosthodontics. Having scanners easily available to students would be ideal. D3 students do not have assigned times for scanning. Students usually perform the assigned scan when there is a patient cancelation..
- C. Dr. Vargas discussed how they use the CAD/CAM with a case approval form. The approval form helps ensure comprehensive case selection requiring faculty signature. Prior to the day of the actual procedure, all preplanning and preparation occurs. At this time, scanning, milling and firing occurs approximately 3½ days a week. The digital design software helps in many ways and by including the case approval form, patient care is being completed within the morning session. Members voiced concern with the growing need and use of the scanners, as well as impact for the upcoming academic year.
- D. It was noted that zirconia crowns are in high demand. This may necessitate the need for a specialized firing oven.

VI. **Roundtable Comments** – Dr. E. Teixeira

Next Meeting: March 13, 2019

Minutes recorded: Ms. Brenda Selck



HANAN EL GENDY BDS.MS

OPERATIVE DIGITAL CURRICULUM

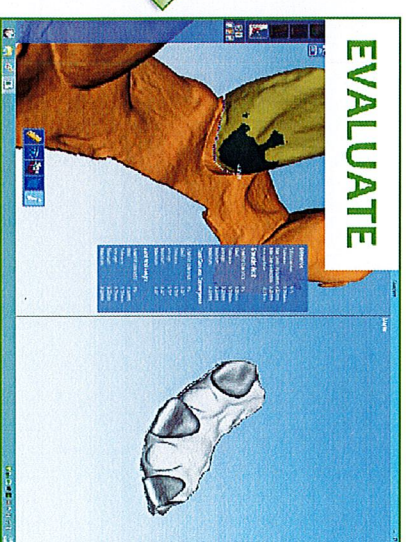
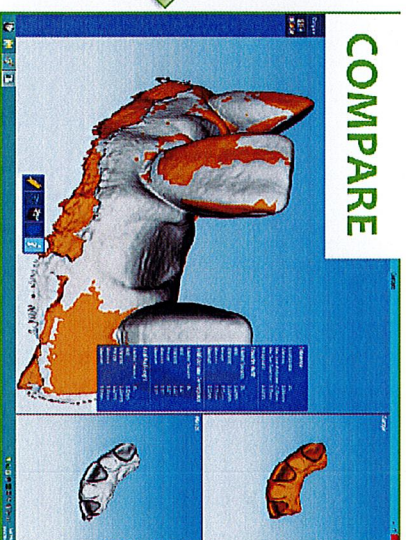
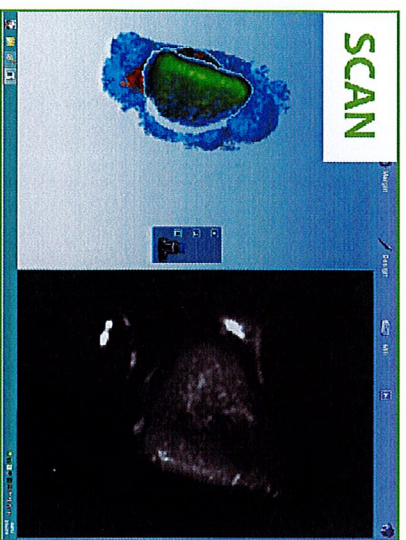
Course Director in Dental Anatomy Course

Assistant Course Director in Oper II Simulation Clinic

D1 DENTAL ANATOMY

BEFORE

- ▶ Teeth wax-up projects #9 #4, #14, #19
- ▶ No grades, but either complete or bonus points



Romexis Compare



PLANMECA | PlanScan

D1 DENTAL ANATOMY

BEFORE

The E4D scanner can be tricky, especially with scanning interproximals. It doesn't seem to pick up the embrasures and some of the mesial and distal contours.

The program does not seem very consistent nor indicative of your actual waxed tooth. For instance, one could get a 52% on the scan, but get 78% when the waxed tooth is graded with the evaluation sheet by a faculty member.

It is nice equipment and will be useful for patients, I think practice and consistent use will help!

Edited by Kayla Epps on Oct. 10, 2017 at 7:03pm
(1 like)

Oct 10, 2017

Using the scanner was difficult for me in the beginning, but it's getting easier. My two main complaints are:

1. Waiting in line for the scanner, getting the tooth scanned, and doing the analysis takes a lot of time. We didn't have a lot of SIM clinic time to practice #4; doing the scan was a distraction from waxing.
2. The compare system doesn't seem to be super accurate or informative. Sometimes the instructors would give us feedback that was contradictory to the software.

(12 likes)

Oct 12, 2017

I have only had two main struggles with the scanning. It does seem to stall often when I am in the process of scanning regardless of how slow I go. I also have to spend half of the class period in line to use the scanner.

(1 like)

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(1 like)

Oct 12, 2017

My recent experiences with the scanner have been good; however, when we first started, I had a lot of problems with the software simply not working. I had difficulties opening up the application on certain laptops and also had difficulties getting the scanners to properly connect.

(1 like)

Feb 2017

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E4D scanners?
Hanan Egerdy

Since this is a group discussion, each group has its own conversation for this topic. Here are the ones you have access to:

Dear Students,

I need to get feedback from you regarding using the E4D scanners and the compare system to improve the quality of it.

- Do you struggle with scanning? etc.

This is a discussion group, so just need feedback from you.

Regards,

Hanan

This topic was locked Nov 3, 2017 at 12am.

Topic: E4D scanner

Search entries by author

Unread

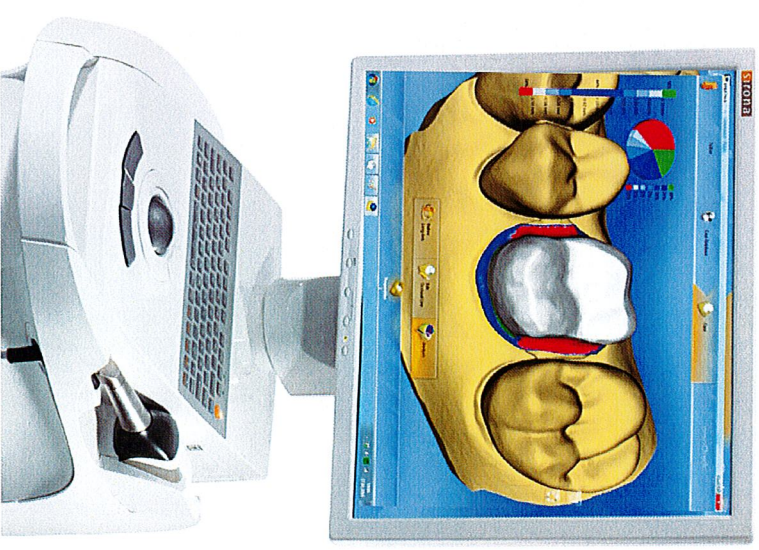
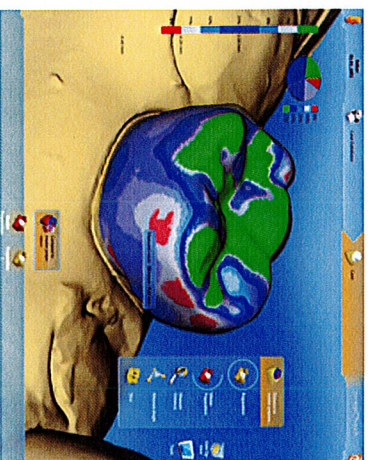
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NEXT ACADEMIC YEAR

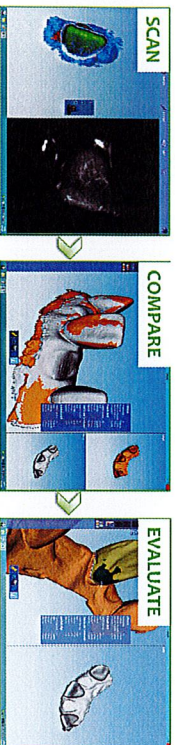
prepCheck

- ▶ Task Force using E4D or the PrepCheck
- ▶ Teeth wax-up projects #9 #4, #14, #19 final project
- ▶ Units available for students!



BEFORE

- ▶ Class IV Composite restoration
- ▶ Using E4D



NEXT ACADEMIC YEAR

- ▶ Restoration (class II, IV, V) and Preps for amalgam
- ▶ PrepCheck



D2 OPERATIVE II

BEFORE

- ▶ Onlay preps for #20 E4D, #30 Omnicam
- ▶ Scan with Omnicams and Design on Bluecams
- ▶ Graded
- ▶ No assigned time for students.

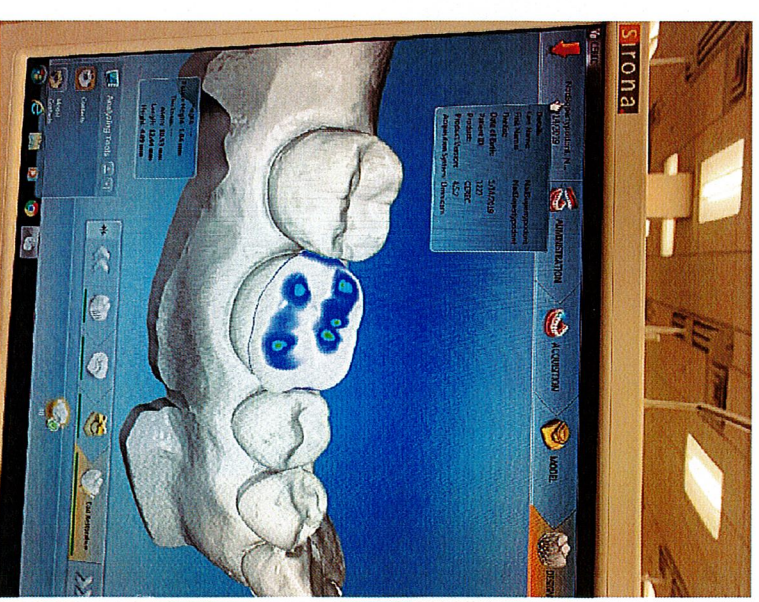
NOW

- ▶ Onlay preps #20,30,12
- ▶ Using Omnicams
- ▶ Graded
- ▶ Students assigned in specific time to decrease the load in Ivan. 4-5 students per session (from Jan- May)

CND CMM

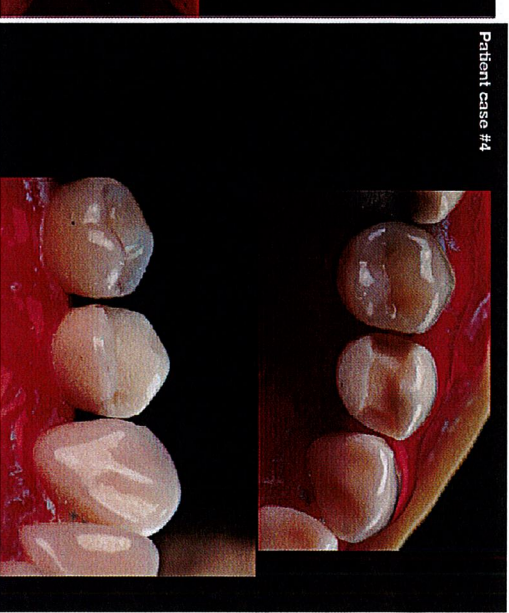
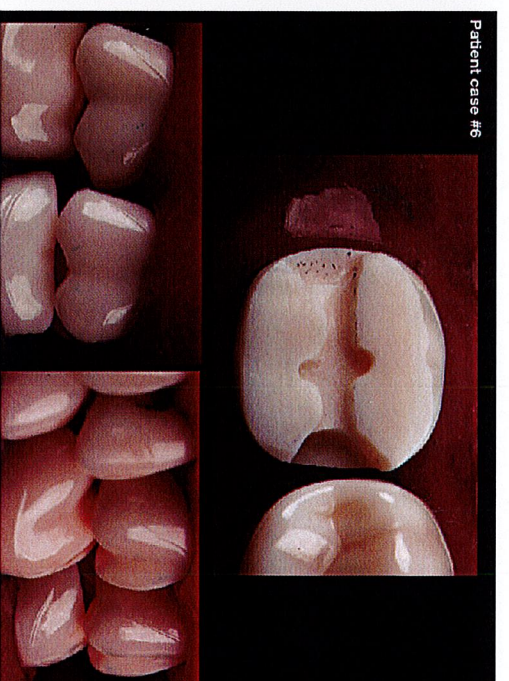
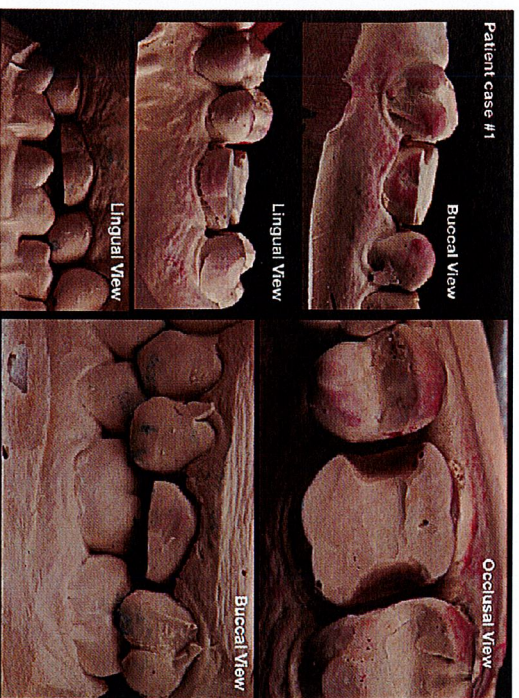
D3 OPERATIVE III

- ▶ Scan of classmate arch using Omnicams
- ▶ Onlay prep and design, submission in ICON
- ▶ No assigned time for students.
- ▶ Clinical cases based on patients availability.



CVD CVM

CALIBRATION SESSION FOR ALL FACULTY AND RESIDENT




CAD CAM

CAD CAM

Calibration Session
Jan 25th 2019



Please mark each box with one of the following:
S: Surpassed expectation (no modification needed)
M: Met exceptions (need minor modification)
N: Need improvement (clinically not acceptable)

Criteria	Pt case #1	Pt case #2	Pt case #3	Pt case #4	Pt case #5	Pt case #6	Pt case #7	Pt case #8
Smooth, well defined margins								
Rounded internal angles								
Smooth tapered walls								
Exit angles and margins approaching 90								
Rounded, smooth box shape (flared boxes)								
Adequate reduction to func cusps (2mm) and non-func cups (if any)								
Proximals: Separation from adjacent teeth								
Smooth transitions wall with no stress points								

Digital Integration in Prosthodontics:

Undergrad:

D1 (ACC Course):

- Students learn how to scan a crown preparation and have feedback using Compare software (using E4D).
- The best crown preparation will be used to digitally scan, design and mill (by Ivan) a crown that will be delivered in a D2 course (using E4D).

D3 (Clerkship):

Practice:

- Students are required to practice scanning full dentate maxillary and mandibular dentoforms on a mannequin (using CEREC OMNICAM).
- Students are also required to scan a crown preparation on a master cast and digitally design a restoration (using CEREC BLUECAM).

Patient cases:

- Students have an option to use digital technology for scanning both maxillary and mandibular full arch in fabrication of a patient's diagnostic casts, limited to patients needing implant treatment (using CEREC OMINCAM or 3M TRUE DEFINITION).
- Students also have an option to use digital technology for scanning tooth preparation intraorally, digitally design and mill a single unit restoration (using CEREC OMINCAM or 3M TRUE DEFINITION).

CAD / CAM same day checklist

Family Dentistry.

Case approval

- ☐ Case is comprehensive or limited care sent by treating DDS.
- ☐ Case screened and approved.

Signature Required	
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- ☐ Material selected _____
Shade: _____ Translucency: MT ☐ LT ☐
Need to order Yes ☐ No ☐
- ☐ Patient scheduled in Digital Equipment Schedule column at front desk.
- ☐ Diagnostic impressions made.

Case preparation

- ☐ Matrix made.
- ☐ Anticipated tooth preparation on model.
- ☐ Optical impressions made on models.
- ☐ Restoration designed on model.
- ☐ Bonding procedure reviewed – Panavia V5 instructions.