

Members Present: Drs. Erica Teixeira (Chair), Omar Alburawi, Piriya Boonsiriphant, Manuel Gomez, Leo Marchini, Rodrigo Rocha Maia, Marcos Vargas, John Syrbu, Trishul Allareddy, Ron Elvers, Lily T. Garcia, Mr. Charles W. McBrearty, Mr. Ivan Medin, Kyle Nicholson (D4), Gracie Deery (D3), Morgan Lauer (D2) and Monzer Shakally (D1)

Absent: Drs. David A. Jones, Theodoros Katsaros, Patty Meredith and Kyle Stein

Guest: N/A

Meeting called to order 12:03 p.m.

I. **Approval of June 13, 2018 minutes** – Dr. E. Teixeira

MOTION: to approve the minutes as submitted and seconded.

MOTION APPROVED.

II. **Review the charge for the committee** – Dr. E. Teixeira

A. Introductions were done to familiarize everyone with one another.

B. Dr. Teixeira read the charge to the committee.

III. **Department of Periodontics – Cordless Prophylaxis System** – Dr. Garcia

A. There is no decision at this time, due to lack of administrative staff meetings.

IV. **Electric Handpieces – plans to program settings** – Dr. E. Teixeira (See Attachment)

The electric handpieces originally had two program settings. Most faculty were not aware of the existing program settings. The faculty from Operative, PCD, Prosthodontics, and Endo developed nine (9) programs for the clinic and eight (8) programs for use in the simulation clinic.

- Programs are labelled per type of procedure and the attachment used.
- Operative is more than willing to help other departments learn the new programming.
- Bien-Air sent a technician and all new programs will be installed by the end of the week. Justin Bringman helped coordinate support staff to help in labelling and resetting the handpieces throughout the week.
- Settings can be modified manually in both the clinic and simulation clinic. The document attached will be modified to include descriptions for each setting.

ACTION ITEM: Dr. Garcia will send these programs out to the DEOs and committee members

V. **CoD Digital Dentistry Team: Drs. Boonsiriphant, Vargas, Teixeira** – Dr. Boonsiriphant

A. The American College of Prosthodontists Education Foundation created a digital task force, in part led by Dr. Garcia that created the curriculum framework for teaching digital dentistry in predoctoral and advanced education in prosthodontics. The CoD has access to valuable materials to help faculty teach digital dentistry. If any other departments want to participate, contact Drs. Boonsiriphant, Vargas or Teixeira indicating your interest.

VI. **Current use of digital scanners** – Dr. Garcia

- A. When using any digital technologies, each must be booked through AxiUm, so Ivan and other faculty/staff know where to find this equipment. There are scanners in the simulation clinic, 2nd floor and 3rd floor clinics. When booking a scanner for use, please identify which unit and department location. Schedule the unit limited to what you need and then return to the location you obtained the unit. *It is important to follow the protocol since these are shared resources.* Generally it is faculty that are not doing this correctly.
- B. The wands and sleeves go to 4th floor dispensary only for processing. The 3Shape requires a license, then will be used in support of digital workflow.
- C. Send a PDF document of the protocol to schedule scanners.

ACTION ITEM: Updating faculty/staff on protocol through email once a semester.

VII. **CEREC and E4D: decision for use/replacement**

- A. E4D could be used in the sim clinic for the D2 course in operative and others to use up the materials and then stop reordering. Drs. Kerdani and Hernandez use the E4D in clinic. The software in general is super slow, it is not just the machine.
- B. The only problem with CEREC is that they use prep check with a high price tag attached to the software. If a transition plan could be drafted, Dr. Garcia could bring it to Admin Staff for approval.
- C. Ivan wants more sleeves. The blue cams will eventually be unable to read scans.

MOTION: to move the E4D from clinic to the sim clinic. Motion seconded and approved.

ACTION ITEM: Drs. Boonsiriphant, Meredith, Elgendy, Restrepo-Kennedy, and Ivan Medin will discuss a transition plan for the E4D and report at the HTC meeting next month. Originally, there were eight (8) units with the software. Additional consideration if CEREC reveals with a new product.

ACTION ITEM: Ad hoc group to look at blocks.

VIII. **Workgroup for Digital Tech Info on the Intradent** – Dr. E. Teixeira

Time did not allow for this discussion to take place. There is a need to define what should be available for students/faculty and to develop new materials, i.e. video tutorials.

Next Meeting: August 2018

Minutes recorded: Ms. Lauren Moniot

Electric Handpiece: PROGRAM SETTINGS *(Clinical Use)*

Program 1 = FG Preparation (Friction Grip, Tooth Preparation)

Ratio 1:5 = CA 1:5 L handpiece

Speed = 200,000 RPM

Torque = 0.70 Ncm (100%)

- Used for initial access cavity preparation, crown preparation, and endodontic access preparation, i.e. used as a high speed handpiece. Reduce speed to 6000 rpm for smoothening external cavity walls as part of the final cavity preparation steps.

Program 2 = FG Caries removal (Friction Grip, Caries removal)

Ratio 1:5 = CA 1:5 L handpiece

Speed = 1,500 RPM

Torque = 0.70 Ncm (100%)

- Used with FG carbide round burs for caries removal.

Program 3 = FG Restor Polish (Friction Grip, polish restorations)

Ratio 1:5 = CA 1:5 L handpiece

Speed = 4,500 RPM

Torque = 0.70 Ncm (100%)

- Used with FG restoration finishing and polishing burs. With soflec discs attached to a FG snap on mandrel use 4,500 rpm. Could increase the speed to 6,000 rpm for FG carbide and FG diamond finishing and polishing burs.

Program 4 = Latch Restor Polish (Latch handle, polish restorations)

Ratio 1:1 = CA 1:1 L handpiece

Speed = 6,000 RPM

Torque = 3.5 Ncm (100%)

- Used for latch resin-based composite polishing burs: Green Jiffy Cup Pre-polisher (Ultradent), Pasteless cup and point brushes (Brasseler), Gloss polisher cup and flame (Kerr Hawe), Hi Luster Dia polisher cup and Flame (Kerr Hawe).

Program 5 = FG Prosth (Friction grip, refining final tooth preparation)

Ratio 1:5 = CA 1:5 L handpiece

Speed = 20,000 RPM

Torque = 0.70 Ncm (100%)

- Used with FG diamond finishing burs to smooth crown preparations.

Program 6 = Straight Adjustment (Used with long-shank burs)

Ratio 1:1 = Straight Attachment

Speed = 40,000 RPM

Torque = 3.5 Ncm (100%)

- Used for extraoral adjustment.
- Used for Prophylaxis, using the contra-angle CAP 15:1 or straight handpiece for standard disposable heads PMP 10:1.

Program 7 = Straight Polish (Used with long-shank burs)

Ratio 1:1 = Straight Attachment

Speed = 20,000 RPM

Torque = 3.5 Ncm (100%)

- Used for extraoral polishing.

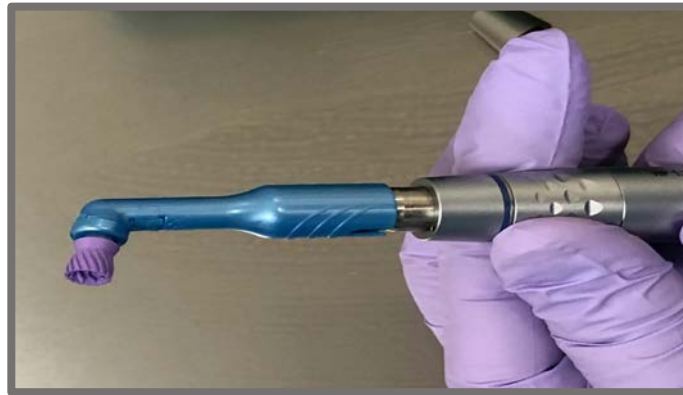
Program 8 = Straight Prophyl (Used for oral prophylaxis procedures)

Ratio 1:1 = Straight Attachment

Speed = 3,000 RPM

Torque = 3.5 Ncm (100%)

- Used with Vera prophyl cup. Remove the cone from the straight attachment, unlock the straight attachment, gently place the Vera prophyl cup, do not press firmly, and lock the straight attachment. NOTE: The Vera prophyl cup does not seat all the way to the collar of the handpiece, see picture below.



Program 9 = Latch EndoSLAccess (Latch handle, used with peeso reamers or gates glidden)

Ratio 1:1 = CA 1:1 L handpiece

Speed = 800 RPM

Torque = 3.5 Ncm (100%)

- Used with Gates Glidden drills for straight-line access and with Peeso reamer drills for post canal preparation.

Electric Handpiece PROGRAM SETTINGS

(Simulation clinic use)

Program 1 = FG Preparation

Ratio 1:5 = CA 1:5 L handpiece

Speed = 200,000 RPM

Torque = 0.70 Ncm (100%)

- Used for initial access cavity preparation, crown preparation, and endodontic access preparation, i.e. used as a high speed handpiece. Reduce speed to 6000 rpm for smoothening external cavity walls as part of the final cavity preparation steps.

Program 2 = FG Caries removal

Ratio 1:5 = CA 1:5 L handpiece

Speed = 750 RPM

Torque = 0.70 Ncm (100%)

- Used with FG carbide round burs for caries removal.

Program 3 = FG Restor Polish

Ratio 1:5 = CA 1:5 L handpiece

Speed = 4,500 RPM

Torque = 0.70 Ncm (100%)

- Used with FG restoration finishing and polishing burs. With soflec discs attached to a FG snap on mandrel use 4,500 rpm. Could increase the speed to 6,000 rpm for FG carbide and FG diamond finishing and polishing burs

Program 4 = Latch Restor Polish

Ratio 1:1 = CA 1:1 L handpiece

Speed = 6,000 RPM

Torque = 3.5 Ncm (100%)

- Used for latch resin-based composite polishing burs: Green Jiffy Cup Pre-polisher (Ultradent), Pasteless cup and point brushes (Brasseler), Gloss polisher cup and flame (Kerr Hawe), Hi Luster Dia polisher cup and Flame (Kerr Hawe).

Program 5 = FG Prosth

Ratio 1:5 = CA 1:5 L handpiece

Speed = 20,000 RPM

Torque = 0.70 Ncm (100%)

- Used with FG diamond finishing burs to smooth crown preparations.

Program 6 = Straight Adjustment

Ratio 1:1 = Straight Attachment

Speed = 40,000 RPM

Torque = 3.5 Ncm (100%)

- Used for extraoral adjustment.

Program 7 = Straight Polish

Ratio 1:1 = Straight Attachment

Speed = 20,000 RPM

Torque = 3.5 Ncm (100%)

- Used for extraoral polishing.

Program 8 = Latch EndoSLAccess

Ratio 1:1 = CA 1:1 L handpiece

Speed = 800 RPM

Torque = 3.5 Ncm (100%)

- Used with Gates Glidden drills for straight-line access and with Peeso reamer drills for post canal preparation.