

Health Technology Committee Meeting Agenda	
January 11, 2017	12:00 – 12:50; N304
Dr. Erica Teixeira, Chair	Recorder: Ms. Lauren Moniot

Agenda Items	Responsible Individual
1. Approval of November 9, 2016 Minutes	E. Teixeira
2. Electric Handpieces – Update: need for an extension?	Vargas
3. CAD/CAM Scholarship application – Review & Approval	E. Teixeira
4. CDT/Digital – Update on search position	Garcia
5. Department of Endodontics Request – Electronic Apex locator	M. Gomez
6. Next Meeting: February 8, 2017	

Action Items			
Status	Action to be taken	Responsible	Due Date
Pending	HTC Content on Intradent	Maia/Garcia	
Pending	Educational video tutorials re: digital equipment	Restrepo-Kennedy/Maia/Medin	

Health Technology Committee (2016-2017)

Dr. Erica C. Teixeira – Chair
 Dr. Zeina I. Al-Salihi
 Dr. Piriya Boonsiriphant
 Dr. Manuel R. P. Gomez
 Dr. David A. Jones
 Dr. Leo Marchini
 Mr. Charles W. McBrearty
 Mr. Ivan Medin
 Dr. Patricia K. Meredith
 Dr. Michael D. Murrell
 Dr. Rodrigo Rocha Maia
 Dr. Kyle M. Stein
 D3 – Elliott Glenn

ex officio:
 Dr. Veeratrishul Allareddy, University Academic Technology
 Advisory Committee
 Dr. Ronald D. Elvers, Director of Clinics
 Dr. Lily T. Garcia, Associate Dean for Education
 Ms. Michelle M. Krupp, Director of Education Development
 Dr. Galen Schneider, Executive Associate Dean

Members Present: Drs. E. Teixeira (Chair), Al-Salihi, Gomez, Jones, Marchini, Meredith, Rocha Maia, Stein, Vargas, Elvers and Mr. McBrearty

Members Absent: Drs. Boonsiriphant, Murrell, Allareddy, Garcia, Schneider and Mr. Medin

Guest: N/A

Meeting called to order at 12:05 pm

- I. Motion to approve HTC minutes of the November 09, 2016 meeting passed.
- II. Electric Handpieces – Update: need for an extension? – Dr. Vargas
 - There was an extension on electric handpieces, but the end of February will be the due date for information forms to be turned in. There is a form to be filled out and returned to Dr. Vargas. Purchasing will receive all the forms and calculate the results. When Dr. Vargas receives a response from purchasing, he will have more information to share with the committee on the electric handpieces. Comments included:
 - In ENDO, they set all handpieces out, so all faculty has an opportunity to use them.
 - They are big and heavy. If smaller, they would like the electric handpieces better. With the investment being \$1m, it may be best to wait a few years to see if they get smaller.
 - Dr. Vargas has been using electric for 10 years, they are getting smaller, lighter and not getting as warm, when in use for a long time. Electric can burn, this is more brand independent. There are maintenance issues as well, but is also brand dependent.
 - Creating standardized requirements for what we are looking for in a handpiece should be done before any decisions are made.
- III. CAD/CAM Scholarship application- Review & Approval – Dr. E. Teixeira
 - Reminder we have an agreement with Sirona. They offer a scholarship for training once a year and this committee will vet the applications for it. Dr. Teixeira has created a 1 page form that has been mailed out to everyone. The training is usually 2 days in Charlotte, North Carolina, but there is no set date until right before the training. This committee will decide which two candidates would go yearly. They set up training according to what the schools want. Most of the times it is basic training, but intermediate and advanced are also available. There is not usually a lot of time to plan for this. They let us know the dates right before the training would take place.

We need to know who would be willing to do the training with such short notice. Comments included:

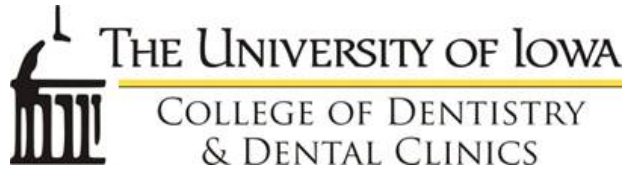
- The form is sufficient for the scholarship. Administration send an email out to find out who wants an application.
 - Partial and complete dentures are not being taught in the curriculum with CAD/CAM.
 - Will we be moving to the Cerec only? 2 years ago a vote was done for pre-clinic moving towards E4D. Students learned both machines. With our experience now, we have a lot of issues with e4d scanner. We may have to revisit this again. In the clinic they give you the same result. The design on the Cerec is more user friendly. Ivan would be a good resource on the maintenance issues for both machines. The plan now is to continue to support both systems for this academic year.

ACTION ITEM: Follow-up on both Cerec and E4D systems and whether or not to use them.

- IV. CDT/ Digital- Update on search position – Dr. Garcia
 - There is another position available for a CDT. There are 3 applicants right now, and no decision as of yet. Same type of position as Ivan. This should not take as much time to hire as when they selected Ivan.
- V. Department of Endodontics Request- Electric Apex locator – Dr. M. Gomez
 - ENDO has changed tremendously in 10 years in all aspects. Apex locator in sim clinic is needed so students have the opportunity for training before they go out into the clinic to work on patients. There is a lot of evidence, which is included in the handout, that the apex locators would be a solid investment. They will help by establishing a more accurate result to work on the patients. The request is to implement the apex locator in the sim clinic to train the students ahead of time. They would be used in each case for each patient. 18 apex locators would be needed, and the students can share. The total cost about \$10,000. This would be a 1 time investment. There are currently 10 in the clinic and 5 in family dentistry. The apex locators used in the clinic are the same model as the one requested. It was suggested that apex locators in the sim clinic be used in full capacity, beyond the few months that the pre-clinic endodontic course is happening. Purchasing will not be involved in this because total cost is under \$25,000. Dr. Gomez showed the device to the committee. The committee motioned to approve, and was seconded.

Next meeting on **February 8, 2017.**

Minutes recorded: Ms. Lauren Moniot



Scholarship Application Form for CEREC Training

Faculty/Staff Requesting: [Click here to enter text.](#)

Department: [Click here to enter text.](#)

Contact Info: [Click here to enter text.](#)

RETURN COMPLETED FORM TO CHAIR, HEALTH TECHNOLOGIES COMMITTEE

- I. Brief description of why the training is necessary:
[Click here to enter text.](#)
- II. In which courses/capacities the training will be used?
[Click here to enter text.](#)
- III. Applicant agrees to present a summary of learning outcomes from the course.
[Click here to enter text.](#)

Scholarship includes tuition of the course, 2 nights hotel and most meal once in Charlotte, NC (supported by Sirona-CEREC CLUB agreement). Applicant will be responsible for additional costs, including air-fare.

Faculty Signature: _____ Date: _____

DEO Signature: _____ Date: _____

Form should be submitted to HTC Chair

INTERNAL USE ONLY

Health Technologies Committee Approval: [Click here to enter text.](#)

Office for Education Approval: [Click here to enter text.](#)

Technology Request Form for Patient/Simulation Clinic
(Includes Software Installation)

Faculty/Department Requesting: Manuel R. Gomez, DDS. Endodontics

Technology (Equipment/Software) Name: Root ZX electronic apex locator

Vendor Contact Information: The contact person at J Morita is Maria Del Real Gioberti, Product Specialist, Educational Division. Phone number: (949)465-1045. Email address: mgioberti@jmoritausa.com

RETURN COMPLETED FORM TO CHAIR. HEALTH TECHNOLOGIES COMMITTEE

- I. Brief description of the purpose of the technology and how it will be used (consider potential learning outcomes, patient care benefits, utility, quality, acceptance and longevity):

It is generally accepted that the removal of all pulp tissue, necrotic material and microorganisms from the root canal is essential for endodontic success. Root canal treatment procedures should be confined within the root canal system. To achieve this objective the canal terminus must be detected accurately during canal instrumentation and precise control of working length during the process must be maintained.

Working length determination is primarily determined radiographically. A radiograph provides a two dimensional image of a three dimensional object and is technique sensitive in both its exposure and interpretation. It is well known that the apical foramen is not always located at the radiographic apex of the root; rather, it often lies on the lingual/buccal or mesial/distal aspect. If the apical foramen deviates in the buccal/lingual plane, it is difficult to locate its position using radiographs alone, even using multiple angles.

Electronic apex locators reduce the number of radiographs required and assist where radiographic methods are difficult. They may also indicate cases where the apical foramen is distant from the radiographic apex. Other indication includes the detection of root canal perforation. The recommendation for working length determination today is a combination electronic apex locator followed by radiographic verification.

- II. In what location(s) is the technology to be installed?

This instrument will be used in the endodontic preclinical course at the simulation clinic.

III. Who is responsible for maintaining software/hardware updates?
This instrument is not software related. The only requirement will be batteries.

Skip questions IV - IX if requested technology not software related:

- IV. Hardware specification requirements
[Click here to enter text.](#)
- V. How is the software licensed (dongle, PC based, server based)?
[Click here to enter text.](#)
- VI. Does the use of the software involve patient protected health information?
[Click here to enter text.](#)
- VII. Does the use of the software involve sending data outside the College of Dentistry? Explain.
[Click here to enter text.](#)
- VIII. Does the software integrate with axiUm or MiPACS?
[Click here to enter text.](#)
- IX. Does the software require workstation administrator rights to run?
[Click here to enter text.](#)
- X. Will the Vendor require remote access? No.
- XI. Evidence: Please include evidence available and/or best practices

Studies in vitro and in vivo have demonstrated that the accuracy of the apex locator ranges between 91 and 100% and has become a standard of care in endodontic practice over the years.

Czerw RJ, Fulkerson MS, Donnelly JC. An in vitro test of a simplified model to demonstrate the operation of electronic root canal measuring devices. JOE 1994. 20: 605-6

Shabahang S, Goon WW, Gluskin AH. An evaluation of Root ZX electronic apex locator. JOE 1996. 22: 233-39.

Pagavino G, Pace R, Baccetti T. A SEM study of in vivo accuracy of the Root ZX electronic apex locator. JOE 1998. 24: 438-41.

Welk AR, Baumgartner JC, Marshall JG. An in vivo comparison of two frequency-based electronic apex locators. JOE 2003. 29: 497-500.

XII. Training: Is there a plan for training (student/faculty/residents/specify users)?
Faculty and residents are trained on its use. The electronic apex locator has been used in the junior and senior endodontic clinic since August of 2007. Its initial training has been done during the sophomore course.

XIII. Cost: How much will it cost? Include any annual maintenance/upgrade fees.

We are requesting 18 units, one per pot. Unit price is \$549.90. The total cost is \$9,913.20 including shipping. The quote is attached to this application.

- a. if supported by grant or external funding, include account and PI name:
No.
- b. if a "Gift in Kind" or "Preferred Development Agreement", please see Dean Arneson and include with request form (yes/no/not applicable).
No.

XIV. Company characteristics (include name, reason for choice, alternative if company goes out of business, representative contact):

J Morita was chosen because is the manufacturer of Root ZX electronic apex locator which has been in the market since 1991 and is currently the world's bestselling unit. J Morita USA's products line also includes diagnosis and imaging equipment, hand pieces, and lasers. It's a very solid company.

XV. Self-bias or possible conflict of interest:
No.

X. Implications for Curriculum – specify if related to predoctoral and/or advanced education curriculum:

- a. Identify area of curriculum incorporation: Predoctoral and/or Advanced Education Program(s)
Sophomore endodontic preclinical course.
- b. Responsible individual to submit proposal into existing course or creation of new course:
Manuel R. Gomez, DDS. Clinical Associate Professor, Endodontics
- c. Curriculum proposal for submission to Curriculum Committee for review (include course no.):
Endodontic preclinical course. Course number 8241.

Faculty Signature: _____

Manuel R. Gomez

Date: 12-8-16

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Technology & Media Services Review: [Click here to enter text.](#)

Central Sterilization Services Review: [Click here to enter text.](#)

Health Technologies Committee Approval: [Click here to enter text.](#)

Office for Education Approval: [Click here to enter text.](#)

Office for Finance & Facilities:

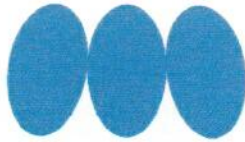
Business Associates Agreement required (yes/no): [Click here to enter text.](#)

Business Associates Agreement on file (yes/no): [Click here to enter text.](#)

Purchasing Contract/PO Information: [Click here to enter text.](#)

DEO Signature: _____ Date: _____

Form should be submitted to HTC Chair



MORITA

QUOTE

9 Mason
Irvine, CA 92618
(888) 566-7482 / Fax (949) 581-8811

Customer

Name University of Iowa College of Dentistry
Address S 404 Dental Sceince Bldg.
City Iowa City IA ZIP 52242
Phone 319 335-7240

Misc

Date 11/21/2016
Purchase Order No. _____
Rep _____
FOB _____

Qty	Description	Unit Price	TOTAL
18	Root ZX II 24-5336392 unit includes: 1 probe cord, 3 file holders, 5 lip clips, 3 AA batteries	\$549.90	\$ 9,898.20

SubTotal \$ 9,898.20
Shipping \$ 15.00

PaymentCredit

Tax Rate(s) _____

Comments Net 30 terms**TOTAL** \$ 9,913.20

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PLEASE RETURN THIS INVOICE WITH YOUR PAYMENT

THANK YOU FOR YOUR BUSINESS