

**Members Present:** Drs. DC Holmes (Chair), Omar S. Alburawi, Zeina Al-Salihi, Satheesh Elangovan, Nidhi Handoo, Wayne Johnson, David A. Jones, Leonardo Marchini, Natalia Restrepo-Kennedy, Michelle Krupp, Bruno Cavalcanti, Brian Howe, Tad R. Mabry, Mr. Layton Fritsch (D4), Ms. Katie Wolter (D2), Ms. Briar Voy (D3)

**Absent:** Drs. Sherry Timmons, Aditi Jain, Marcia Sampaio-Campos, Sandra Guzman-Armstrong

Meeting called to order 12:03 p.m.

- I. **Approval of January 15 Minutes:** – Dr. DC Holmes  
**MOTION:** to approve the January 15, 2020 minutes as submitted. Motion seconded.  
**MOTION APPROVED.**
  
- II. **Critical Thinking/EBD Presentation** – Work Group (Presentation)  
CT/EBD work group members, Drs. Tad Mabry, Satheesh Elangovan, Nidhi Handoo, Leonardo Marchini, and Ms. Katie Wolter (D2) have been meeting over the last three months to review the collegiate EBD/CT curriculum thread as well as identify and make suggestions for improvement.  
Dr. Mabry gave the presentation on the group's findings. He described the process as being one that does not define but puts meaning into how the CoD wants their students to practice evidence based dentistry and critical thinking.  
Please refer to the attached presentation for more details on considerations, goals and learning objectives discussed during the meeting.  
Comments/Questions:
  - This work group's charge was a huge undertaking and this presentation was very well done.
  - This is the first time we have reviewed a curriculum thread.
  - There is an emphasis on coordination of learning throughout the four years as well as relevance and application of the clinical side.
  - Moving forward, there will need to be further discussion regarding the D3 year since the D3 Critical Thinking course was deleted as a result of Title IV compliance. With no dedicated critical thinking class, clerkship directors will need to teach and assess the outcomes related to both critical thinking and EBD. Further discussions will create an opportunity for the Curriculum Committee to collaborate with the Clerkship Directors Committee.

Dr. Marchini, the new D2 critical thinking course director, has been working closely with Dr. Caplan to develop a course focused on critical thinking in treatment planning. Dr. Marchini would like this new course to be a continuation of the D1 course. He feels that it would be important to transfer into the D3 course with the same idea so that it will be familiar to the students.

Comments/Recommendations:

  - Appreciative of Dr. Marchini, as it will be a challenge to create this course from scratch but it will also create opportunities to bridge these courses.

- Recommend that Dr. Marchini meet with the Clerkship Directors to determine what their expectations are. It is most essential to create that bridge from the D2s to the D3s.

### III. **GSN-FAMD Update** – Dr. Holmes

Drs. Holmes, Cowen, Hartshorn and Caplan have had ongoing discussions and agreed that Option 3, as outlined in Drs. Cowen, Hartshorn and Caplan presentation at the last committee meeting will be implemented for a year as a transitional phase. This option includes:

- Seven D4 students to be assigned to each of the 8 extramural GSN blocks, which would count for 56 students. The remaining D4 students would attend GSN instead of FAMD for the same day of each week for 10 consecutive weeks.
- Clinical procedures completed by D4 students in the non-extramural GSN Clinic assignment will be counted towards FAMD MEEs and RVUs.
- GSN faculty supervising the non-extramural students will provide input to the students' group leader for coaching/feedback and final grading.
- Supervising faculty in the GSN clinic will be able to be released from their other assignments in order to participate in all of FAMD Faculty Conference activities (calibration, continuing education, reviews of individual student progress).
- These special provisions should be explained clearly too all students prior to the submission of their extramural preferences and will be reiterated with a brief orientation prior to the beginning of the D4 year.

Based on outcome data that supports number of days necessary to achieve intended learning goals, a revised arrangement could be developed for the subsequent year that would meet the following goals:

- Every D4 student will participate in the same GSN Clinic experience for an approximate equivalent number of days.
- Clinical procedures completed by D4 students in the GSN Clinic under supervision of CoD faculty will be counted towards Family Dentistry MEEs and RVUs.
- Supervising faculty in the GSN Clinic will participate in all Department of Family Dentistry Faculty Conference activities (calibration, continuing education, reviews of individual student progress)

### IV. **Title IV Impact** – Dr. Krupp (handout)

Dr. Krupp provided a handout that shows which courses were impacted by the Title IV mandate. Eight courses were split to create 12 new courses (highlighted in blue), 6 courses moved into 1 semester, 4 courses were combined and 1 course was deleted. This has exploded the curriculum and expanded semester hours. Dr. Krupp suggests doing a curriculum analysis to look methodically at all components, interrelatedness, inefficiencies and overall effectiveness.

### V. **Integration Retreat** – Dr. Krupp

The integration retreat will be held on February 26, 2020 at the Radisson Hotel in Coralville. This daylong event will focus on generating recommendations for integrated teaching, learning & curriculum. There will be a heavy focus on collaboration between clinical and biomedical science faculty.

Dr. Ellen Byrne, Academic Dean, from Virginia Commonwealth University will skype in to speak about the boards and what they do at VCU.

A patient box question development session will be done at the end of the day with the idea that eventually all of the CoD faculty will be trained on how to develop patient box test items.

More information will be sent out at least 2 weeks before the retreat.

VI. **Round Table Comments** – Committee

- Mr. Layton Fritsch (D4) asked how the RVUs will be assigned for those students who go to GSN? Will it be per procedure?
  - Dr. Holmes responded by saying it will be per procedure, but will only be for the 24 students who do this during FAMd. Rather than a student doing 8 consecutive days in GSN Clinic, it would be a day a week for 10 consecutive weeks. This will hopefully let students do procedures from start to finish rather than an isolated part of a procedure.

**Next Meeting: March 6, 2020**

Minutes recorded: Ms. Brenda Selck

# Evidence Based Dentistry and Critical Thinking Workgroup

Curriculum Committee Presentation  
Feb. 5, 2020



Satheesh Elangovan, Nidhi Handoo, Leonardo Marchini,  
Tad Mabry, Katie Wolter (D2)

# Charge

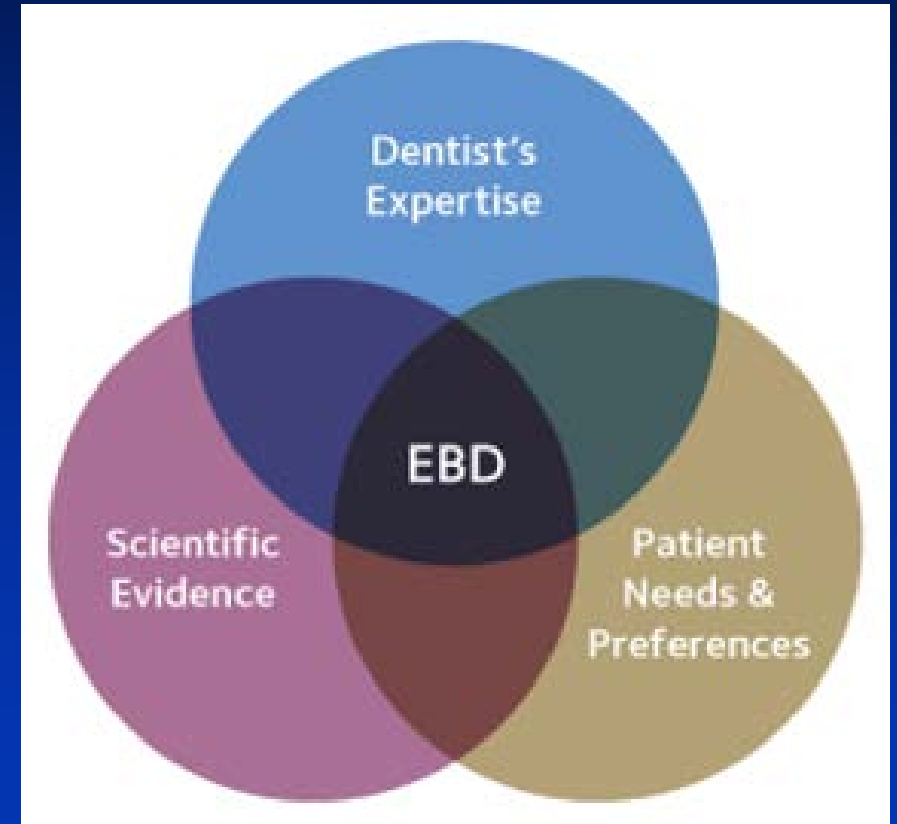
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- Review the collegiate EBD/CT curriculum and identify and make suggestions for improvement

# Evidence Based Dentistry (EBD)

## ■ ADA Definition:

- “an approach to oral health care that requires the judicious integration of systematic assessments of clinically relevant scientific evidence, relating to the patient’s oral and medical condition and history, with the dentist’s clinical experience and the patient’s treatment needs and preferences”



# Critical Thinking

## ■ *Facione*

- “Purposeful, self-regulatory judgement which results in interpretation, analysis, evaluation and inference as well as explanation of the evidential, conceptual, methodological, criteriological or contextual considerations upon which judgement is based.”

## ■ *Paul and Elder*

- “The art of analyzing and evaluating thinking with a view to improving it.”

# Process

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Not to define it but to put  
meaning into how we want our  
students to practice EBD/CT!



# Considerations

- ▣ Current teaching
- ▣ Student feedback
- ▣ Intellectual standards
  - ▣ ADA
    - ▣ Center for Evidence Based Dentistry
  - ▣ ADEA
    - ▣ Commission on Change and Innovation in Dental Education (CCI)
  - ▣ CODA
    - ▣ Standard 2-9, 2-21
- ▣ Future curriculum framework
  - ▣ D1- D4 years

# Goal

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- ▣ What to teach
  - ▣ Not how to teach
- ▣ Where to teach it
- ▣ Minimize unnecessary repetition

# Learning Objectives for a University of Iowa College of Dentistry Student

1. To understand the fundamentals of clinical research and evidence based dentistry (EBD), incorporating the five-step process
2. To be able to apply the five step EBD process and critical thinking skill set to clinical scenarios with emphasis on appraising the scientific literature
3. To employ critical thinking skill set to make evidence based clinical decisions that deliver optimal care in each patient's best interest taking into considerations all patient modifiers
4. To be an active life long learner who maintains skill sets for reassessment of scientific evidence and apply modifications to render standard of care

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# Where introduced

- D1: Dr. Caplan Introduce the 5-step process and EBD
- D2: Dr. Marchini Introduce CT utilizing mock case based scenarios
- D3: Clerkships Apply skill set to live patients with structured guidance
- D4: Fam D Demonstrate application of EBD/CT skill set routinely to comprehensive patient care

# Questions?





## 2020-2021 Academic Year

	Fall	# Weeks	Spring	#Weeks
D1	8-24-20 to 12-18-20	17	1-4-20 to 6-18-21	23
D2	8-24-20 to 12-18-20	17	1-4-20 to 6-18-21	23
D3	8-24-20 to 12-18-20	17	1-4-20 to 7-2-21	25
D4	7-29-20 to 12-18-20	21	1-4-20 to 5-28-21	20

### Courses that Cross Semesters

<b>D1</b>	AY 19-20			AY 20-21	
Course #	Course Name	Course Director	Old SH	Changes	New SH
OPER:8122	Operative Dentistry I	Restrepo-Kennedy	6	Intro to Operative Dentistry (Fall); Operative Dentistry I (Spring)	1;5
PCD:8119	Behavioral Science I	Campos/Butali TBD	2	Clinical Practice & Profession I (Fall); Clinical Practice & Profession II (Spring)	1;1
PCD:8120	Foundations of Critical Thinking I	Caplan	2	Foundations of Evid Based Dent I (Fall); Foundations of Evid Based Dent II (Spring)	1;1
PERI:8120	Periodontic Methods I	Ganesan	2	Periodontic Methods 1 (Fall)	2
PCD:8116	Fund of Clinic Dentistry	Cunningham	1	Fundamentals of Clinical Dentistry (Fall)	1

<b>D2</b>	AY 19-20			AY 20-21	
Course #	Course Name	Course Director	Old SH	Changes	New SH
OPER:8240	Operative Dentistry II	Jain	5	Clinic - not effected	
OPRM:8245	Intro to Clinical Oral Radiology	Allareddy	1	Clinic - not effected	
PCD:8245	Clinical Preventive Dentistry	Warren	2	Clinic - not effected	
PCD:8218	Foundations of Critical Thinking II	Marchini	1	Critical Thinking & EBD in Treatment Planning (Fall)	1
PCD:8219	Behavioral Science II & IPE	TBD	1	Clinical Practice & Profession III (Spring)	1
OPRM:8235	Oral Pathology	Handoo	4	Oral Pathology I (Fall) Oral Pathology II (Spring)	2;2

<b>D3</b>	AY 19-20			AY 20-21	
Course #	Course Name	Course Director	Old SH	Changes	New SH
PCD:8319	Behavioral Science III	TBD	1	Clinical Practice & Profession IV (offered in Fall & Spring)	1
PCD:8370	Application of Critical Thinking		1	Delete course	
DENT:8371	Intro to Quality Assurance	Howe	2	Quality Assurance I (Fall) Quality Assurance II (Spring)	1;1
OPER:8370	Operative Dentistry III	Kolker	4	Clinic - not effected	
PEDO:8370	Pediatric Dentistry: Clinic Applications	Geneser	4	Clinic - not effected	
ENDO:8360/65	Clinical Endodontic Practice/Seminar	Cavalcanti	3/1	Clinical Endodontics	4
PERI:8360/65	Periodontics Clinic/Seminar	M. Williamson	3/1	Clinical Periodontics	4
PROS:8360/65	Prosthodontic Clinic/Seminar	Lindquist	6/2	Prosthodontics Clinic - not effected Prosthodontic Seminar I (Superblock 1: Fall, Superblock 2, Spring) Prosthodontic Seminar II (Superblock 1: Spring, Superblock 2, Spring)	5;1;1

(Professionalism, Ethics, IPE, Beh Sci, etc.)

**Critical Thinking/EBD Thread**

**New Course Created**

<b>D4</b>	<b>AY 19-20</b>			<b>AY 20-21</b>	
<b>Course #</b>	<b>Course Name</b>	<b>Course Director</b>	<b>Old SH</b>	<b>Changes</b>	<b>New SH</b>
DENT:8485	Clinical Admission - Emergency	Gasparoni	1	Clinic - not effected	
DENT:8489	Advanced Topics in Quality Assurance	Howe	2	Clinical Practice & Profession V (Offered in Fall & Spring)	1
FAMD:8484	Dental Practice Management	Syrbu	2	Clinic - not effected	
FAMD:8494	Topics in Family Dentistry	Parker	3	Current Topics in Dentistry I Current Topics in Dentistry II Current Topics in Dentistry III	1;1;1
FAMD:8495	Treatment Planning and Sequencing	Howe	2	Advanced Treatment Planning I (Fall) Advanced Treatment Planning II (Spring)	1;1
FAMD:8487	Clinical Experiences – Comp. Care		10	Clinical Experiences - Comprehensive Care I Clinical Experiences - Comprehensive Care II Clinical Experiences - Comprehensive Care III	3;3;3
FAMD:8488	Clinical Competencies – Comp. Care		12	Clinic - not effected	12

(Professionalism, Ethics, IPE, Beh Sci, etc.)

**Critical Thinking/EBD Thread**

**New Course Created**