Caries Management Competency:

How to Implement this new CODA Requirement?

Ideas from US Dental Schools

ADEA THE VOICE OF DENTAL EDUCATION

Sponsored by the ADEA Cariology Section

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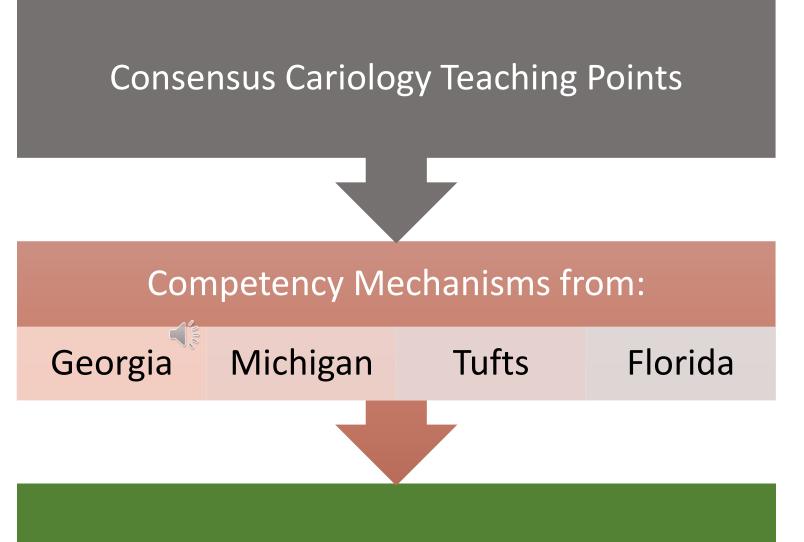
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Webinar Overview:



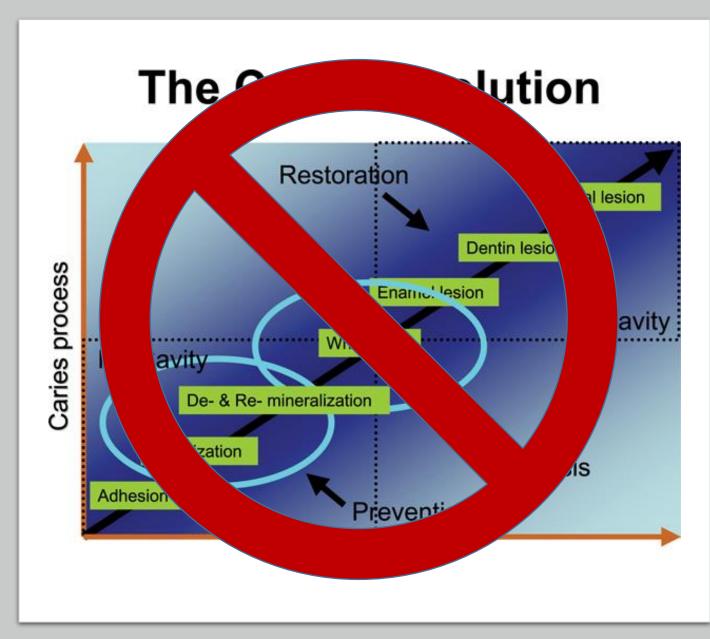
Question and Answer Session by Panelists

Why a Competency in Caries Management?

Dental caries is the most common dental disease.

BUT previous CODA requirements *focused only on the surgical treatment to excise caries and restore tooth structure*

Caries education has changed from "just repair" to management!



Implementation of New Caries Evidence

Dr. Max Anderson summarized current evidence, proposing the Medical Model of Caries in JADA, 1994.





Volume 124, Issue 6, June 1993, Pages 36-44

Worldwide curricular changes created support in the US for the **2015 Boston Caries** Workshop to develop a Core Curriculum framework, published in 2016 by JDE

Modem Management of Dental Caries: The Cutting Edge is not the Dental Bur

Maxwell H. Anderson D.D.S., M.S., M.Ed., David J. Bales D.D.S., MS.D., Karl-Ake Omnell D.D.S., Odont. D.

Development of a Core Curriculum Framework in Cariology for U.S. Dental Schools

Margherita Fontana, Sandra Guzmán-Armstrong, Andrew B. Schenkel, Kenneth L. Allen, John Featherstone, Susie Goolsby, Preetha Kanjirath, Justine Kolker, Stefania Martignon, Nigel Pitts, Andreas Schulte, Rebecca L. Slayton, Douglas Young and Mark Wolff Journal of Dental Education June 2016, 80 (6) 705-720;

Caries Curriculum Workshop 2015 recommended this competency statement on caries management:

"Upon graduation a dentist must be competent in:

- Evidence- based detection and diagnosis of caries (radiographs, clinical)
- risk assessment (many CRA forms)
- Prevention of future caries- (OHI, Nutrition, Behavior Mod, Fluorides)
- non-surgical and surgical management* of caries at individual and community levels and
- Ability to *reassess* outcomes over time."



Final CODA statement:

CODA only added language to Standard 2-24d that states:

"graduates must be <u>competent</u> in health promotion and disease prevention, including caries management"

Standard 2-24:

At a minimum, graduates must be <u>competent</u> in providing oral health care within the scope of general dentistry, as defined by the school, including:

- a. Patient assessment, diagnosis, comprehensive treatment planning, prognosis, and informed consent
- b. Screening and risk assessment for head and neck cancer
- c. Recognizing the complexity of patient treatment and identifying when referral is indicated
- d. Health promotion and disease prevention, including caries management
- e. Local anesthesia, and pain and anxiety control, including consideration of the impact of prescribing practices and substance use disorder
- f. Restoration of teeth
- g. Communicating and managing dental laboratory procedures in support of patient care
- h. Replacement of teeth including fixed, removable and dental implant prosthodontic therapies
- i. Periodontal therapy
- j. Pulpal therapy
- k. Oral mucosal, temporomandibular, and osseous disorders
- I. Hard and soft tissue surgery
- m. Dental emergencies
- n. Malocclusion and space management
- o. Evaluation of the outcomes of treatment, recall strategies, and prognosis

Competency Statement -> Mechanism to assess competence

New graduates must demonstrate competence to begin independent, unsupervised dental practice

- Each dental school must create a mechanism (competency) that demonstrates student skill.
- CODA lets each school develop their own competency method.



Knowledge Base

Risk Assessment

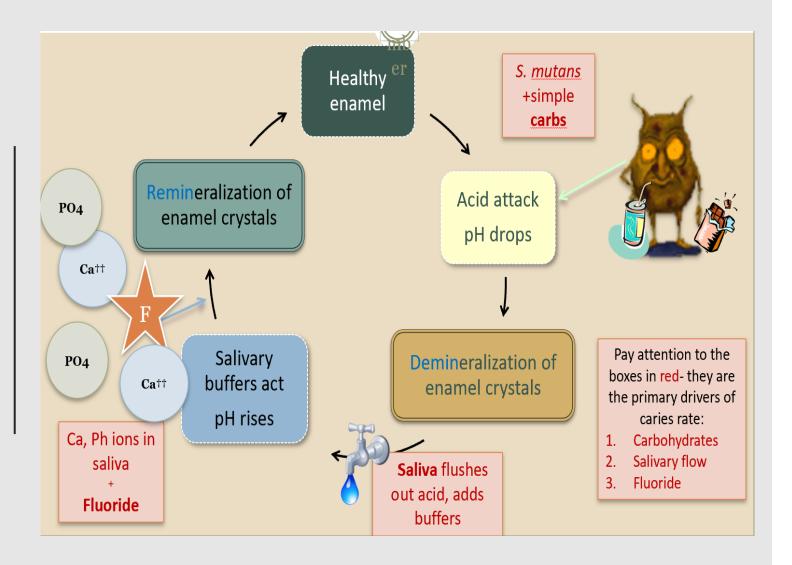
Core Caries Concepts for Curriculum

Preventive treatment plan

Evidence Base

Caries as a Disease:

"Demin- Remin Cycle"

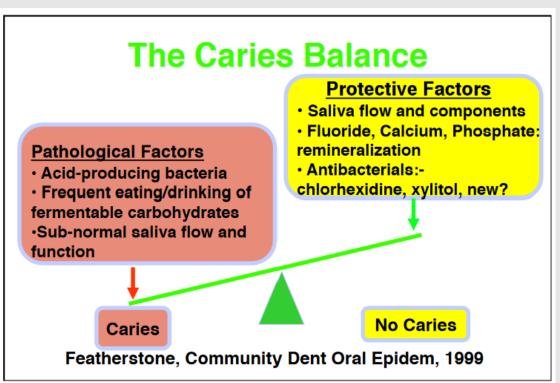


Caries as a Disease:

CAMBRA: Caries Management By Risk Assessment

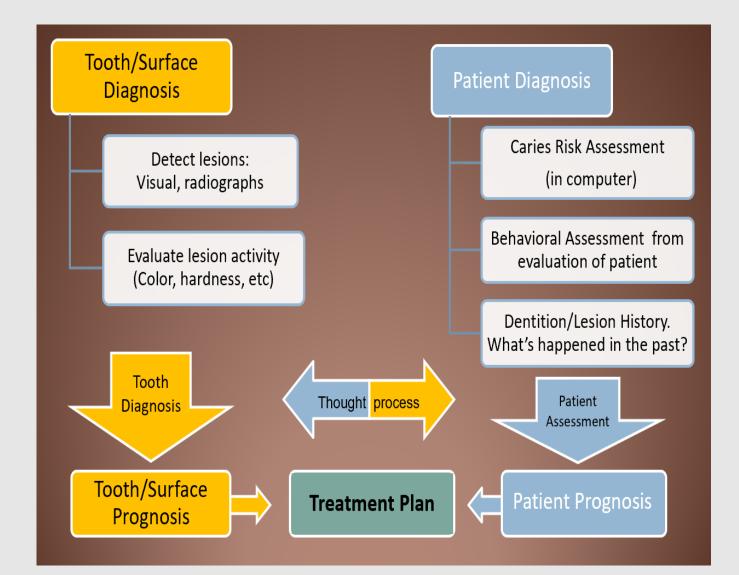
Evidence shows:

- Caries is a multi-factorial disease
- Management of caries requires:
 - Individual risk assessment for each patient
 - Treatment plan **based on risk assessment**



Diagnosis and Treatment Planning:

How CAMBRA works



Smooth Surface Diagnosis

- Assessment of cavitation is critical:
- Until cavitated, lesions are generally not invaded by bacteria
- Demineralized enamel and dentin surfaces can remineralize *if oral environment* changes

Tooth/Surface Diagnosis



Clinical Diagnosis and Use of the Explorer

Tooth/Surface Diagnosis

Diagnostic tools for early caries detection

Andréa Ferreira Zandoná, DDS, MSD, PhD 🔗 ¹ 🖂 • Domenick T. Zero, DDS, MS

DOI: https://doi.org/10.14219/jada.archive.2006.0113



Visual cues!

Explorer used only to feel for cavitated areas

Tooth/Surface Diagnosis

Smooth Surface Caries: Diagnosing Clinically

American Dental Association Caries Classification System.										
	AMERICAN DENTAL ASSOCIATION CARIES CLASSIFICATION SYSTEM									
	Sound	Initial	Moderate	Advanced						
Clinical Presentation	No clinically detectable lesion. Dental hard tissue appears normal in color, translucency, and gloss.	Earliest clinically detectable lesion compatible with mild demineralization. Lesion limited to enamel or to shallow demineralization of cementum/dentin. Mildest forms are detectable only after drying. When established and active, lesions may be white or brown and enamel has lost its normal gloss.	Visible signs of enamel breakdown or signs the dentin is moderately demineralized.	Enamel is fully cavitated and dentin is exposed. Dentin lesion is deeply/ severely demineralized.						
Other Labels	No surface change or adequately restored	Visually noncavitated	Established, early cavitated, shallow cavitation, microcavitation	Spread/disseminated, late cavitated, deep cavitation						
Infected Dentin	None	Unlikely	Possible	Present						
Accessible Smooth Surfaces, Including Cervical and Root [†]	ssible oth Surfaces, ding cal and									

The American Dental Association Caries Classification System for Clinical Practice: A report of the ADA Council on Scientific Affairs 2015 16

Tooth/Surface Diagnosis

Smooth Surface Approximal Caries: Diagnosing Radiographically

	AMERICAN DENTAL ASSOCIATION CARIES CLASSIFICATION SYSTEM										
	Sound	Initial	Moderate	Advanced							
Clinical Presentation	No clinically detectable lesion. Dental hard tissue appears normal in color, translucency, and gloss.	Earliest clinically detectable lesion compatible with mild demineralization. Lesion limited to enamel or to shallow demineralization of cementum/dentin. Mildest forms are detectable only after drying. When established and active, lesions may be white or brown and enamel has lost its normal gloss.	Visible signs of enamel breakdown or signs the dentin is moderately demineralized.	Enamel is fully cavitated and dentin is exposed. Dentin lesion is deeply/ severely demineralized.							
Other Labels	No surface change or adequately restored	Visually noncavitated	Established, early cavitated, shallow cavitation, microcavitation	Spread/disseminated, late cavitated, deep cavitation							
Infected Dentin	None	Unlikely	Possible	Present							
Radiographic Presentation of the Approximal Surface [‡]	E0 [§] No radiolucency	$\begin{tabular}{ c c c c } \hline & & & & & & & & & & & & & & & & & & $	D2 ⁵ Radiolucency extends into the middle one-third of the dentin	D3 ⁵ Radiolucency extends into the inner one-third of the dentin							

The American Dental Association Caries Classification System for Clinical Practice: A report of the ADA Council on Scientific Affairs

Diagnosing Pit and Fissure Caries

American Dental Association Caries Classification System.

	AMERICAN DENTAL ASSOCIATION CARIES CLASSIFICATION SYSTEM										
	Sound	Initial	Moderate	Advanced							
Clinical Presentation	No clinically detectable lesion. Dental hard tissue appears normal in color, translucency, and gloss.	Earliest clinically detectable lesion compatible with mild demineralization. Lesion limited to enamel or to shallow demineralization of cementum/dentin. Mildest forms are detectable only after drying. When established and active, lesions may be white or brown and enamel has lost its normal gloss.	Visible signs of enamel breakdown or signs the dentin is moderately demineralized.	F Enamel is fully cavitated and dentin is exposed. Dentin lesion is deeply/severely demineralized.							
Other Labels	No surface change or adequately restored	Visually noncavitated	Established, early cavitated, shallow cavitation, microcavitation	Spread/disseminated, late cavitated, deep cavitation							
Infected Dentin	None	Unlikely	Possible	Present							
Appearance of Occlusal Surfaces (Pit and Fissure)*											

The American Dental Association Caries Classification System for Clinical Practice: A report of the ADA Council on Scientific Affairs

Caries Risk Assessment

- Many different mechanisms available
- Generally, all consider patient's:
 - Exposure to simple carbohydrates
 - Salivary flow rate
 - Current and past caries experience
 - OH and Fluoride exposure
- Behavioral factors, ie patient concerns

Patient Diagnosis

ADA American Dental Association* America's leading advocate for and health Carles Risk Assessment Form (Age >6)								
Datient Name:								
Bith Date: Date:								
Age				Initials:				
			Low Risk	Moderate Risk	High Risk			
	Contributing Condition	ns	Check o	r Circle the conditions th	hat apply			
ι	Ruoride Exposure (through drinking w professional applications, toothpaste)	vater, supplements,	🗆 Yes	No				
L	Sugary Foods or Drinks (including juic non-carbonated soft drinks, energy dri	Primarily at mealtimes		Frequent or prolonged between meal exposures/day				
IL	Carles Experience of Mother, Caregi other Siblings (for patients ages 6-14		No carlous lesions in last 24 months	Carlous lesions in last 7-23 months	Carlous lesions in last 6 months			
N.	Dental Home: established patient of re regular dental care in a dental office	ecord, receiving	Tes 🗆	No				
	General Health Conditio	306	Check or Circle the conditions that apply					
ι	Special Health Care Needs (developm cal or mental disabilities that prevent o adequate oral health care by themselve	□ Ho	Yes (overage 14)	Yes (ages 6-14)				
П.	Chemo/Radiation Therapy		∐ No		∐ Yes			
Ш.	Eating Disorders		Ho No	☐ Yes				
Ν.	Medications that Reduce Salivary Fig	W .	Ho	☐ Yes				
٧.	Drug/Alcohol Abuse		H o	🗖 Yes				
	Clinical Conditions		Check o	r Circle the conditions th	nat apply			
ι	Cavitated or Non-Cavitated (incipien Carlous Lesions or Restorations (visu radiographically evident)	No new carlous lesions or restorations in last 36 months	1 or 2 new carlous lesions or restorations in last 36 months	3 or more carlous lesions or restorations in last 36 months				
П.	Teeth Missing Due to Carles in past 3	36 months	∐ No		∐ Yes			
Ш.	Visible Plaque		Ho	☐ Yes				
Ν.	Unusual Tooth Morphology that comporting the second	promises	□ Ho	∏ Yes				
٧.	Interproximal Restorations - 1 or mo	xe	Ho	☐ Yes				
VL	Exposed Root Surfaces Present		Ho Ho	🗖 Yes				
VI.	Restorations with Overhangs and/or Contacts with Food Impaction	Open Margins; Open	∐ Ho	Yes				
VIL	Dental/Orthodontic Appliances (for	d or removable)	Ho	☐ Yes				
K.	Severe Dry Mouth (Xerostomia)		No		□ Ves			
Ove	erall assessment of dental cari	es risk:	Low	Moderate	🗖 High			

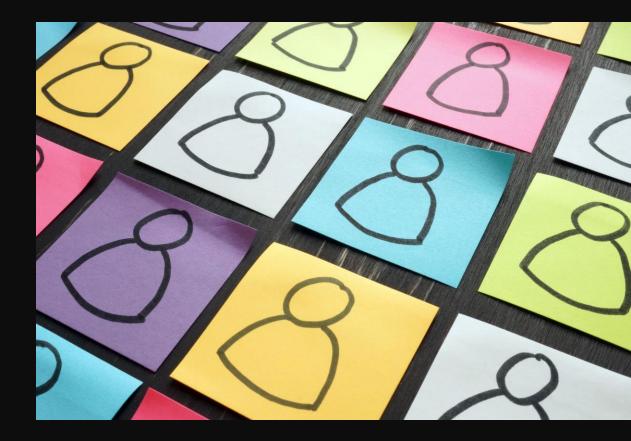
Caries as a Disease:

Management "over time" Because the lesions of caries form slowly, **reassessment of caries risk** must be also performed **over time**. Key Goals:

- Assess patient attitudes and challenges
- Reinforce and encourage needed behavioral changes

Competency in Caries Management

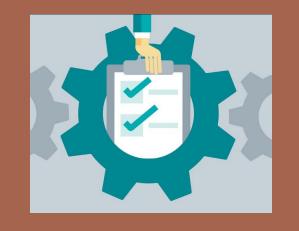
- Unlike single event competency evaluations, demonstrating these skills requires different strategies
- Must evaluate student's ability to develop and perform complex critical thinking skills



Learning Objectives of this Webinar

- 1) Describe the **elements of a caries management competency** that evaluates the student's ability to
 - a. assess individual patient risk
 - b. develop a personalized treatment plan
 - **c. reassess over time** the patient's caries risk and management plan
- 2) Guide development of a caries management competency using best practices from other institutions

This webinar will provide examples of how other dental schools meet this *new* CODA requirement in slightly different creative ways.



Caries Management Competency

The Dental College of Georgia System

Jan Mitchell, DDS, MEd (Ret)

Clinical Practice

• **D2- Clinic-** small panel- 3-4 patient for recall exam including a CRA*, prophy and simple operative as needed.

• **D3, D4- Clinic**- All patients get a CRA* as part of initial and annual exams. Factored into all treatment planning.

CRA- Caries Risk Assessment. Included in grading rubric for correct diagnosis and assessment of patient factors.

How DCG competency works

Part 1. Diagnosis and Caries Risk Assessment

• Student adds the ADA CDT D0603 Code to all high-risk patients examined. Only one will be the competency patients, but attrition (and good care!) makes it necessary to add to all high risk patient charts.

When student has done enough cases to feel confident:

Student declares the competency, presents paperwork for patient exam

Part 1- Diagnose, Plan

Rubric for Caries Competency Part 1

• Diagnosis of lesions

Caries Risk
 Assessment

• Treatment planning

Standard	Pass	No Pass : >2 errors or any critical errors		
Documentation	Paperwork correctly prepared in advance	No paperwork		
Diagnosing caries	Correctly detect carious lesions present Lesions not present not charted (incipient or questionable lesions at faculty discretion)	 > 1-2 minor discrepancies. Incipient lesions at faculty discretion. * Critical error- cavitated lesion > 1 mm large not detected/charted 		
CRA Assessment	Caries Risk Assessment completed with accurate information, especially diet and salivary factors	CRA has inaccurate information or evaluation * Critical error- Inaccurate evaluation of contributing diet or salivary concerns		
Caries Risk Tx Plan	Patient recommendations appropriate for individual's risk assessment (je, salivary reduction > particular product choices) per current caries guidance	Patient recommendations not appropriate for individual's risk (up to 1 error) * Critical error- CRA Form not completed.		
Restorative Treatment planning	 Restorative plan appropriate for patient's risk: Appropriate F varn entries Appropriate material choice All primary caries planned for restoration Questionable pits and fissures planned for PRRs 	 Restorative plan missed more than one of the following: F varm not treatment planned appropriately Surfaces planned correctly for lesion Material choice inappropriate, or student not able to articulate rationale for choice Identified caries not planned for appropriate restorative care. 		
Final Assessment	Pass	Fail More than 2 errors or any critical errors		

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Treat patient's caries-

Documentation of treatment

- Student treats the patient surgically and non-surgically for at least 6 months.
- Student adds caries treatment notes to D0603 code on all patients treated. Counselling notes, F varn, dry mouth issues, etc. by copy/paste from chart note, adding to D0603.

Emphasizes importance of documentation in management of high-risk caries patients!

Recommended documentation:

ltem	Initial documentation	Follow up documentation
Diet concerns	In CRA, list specific simple carb items that may contribute to caries	Treatment chart notes include comments on dietary status- improving or no. These are copy/pasted into notes attached to D0603.
ОНІ	In CRA treatment planning section	Treatment chart notes on teaching efforts and products/tools recommended. These are copy/pasted into notes attached to D0603.
F varnish	Frequency in Phase 1,2 Treatment Plan	Do F varnish at recommended intervals. Attach note to D0603 when procedure performed.
F Toothpaste	Rx in Medication Form	Check "Transactions" icon to see that patient has purchased the toothpaste. Ideally, will be purchased every 3-4 months if patient is using it.
Add'l Product suggestions	In CRA treatment planning section or chart note. Ex: arginine chews, xylitol or sugarless gum.	Ask patient to bring product to appointment "to make sure you've got the items that will work for you" and document in chart note. Copy/paste into notes attached to D0603.

Treat patient's caries- documentation sample

Med Hx review: No changes Pt presents for restoration #4, 5. *Anes:* Administered lidocaine 2% 34 mg, 0.017 mg epi. *Shade selected:* A3 *Isolation:* Rubber dam placed

Procedure: Prepared #4 MO, #5 DO for composite. Removed caries. Acid etch with 37% phosphoric acid, Optibond FL placed. Sectional Matrix and wedge placed. Restored with Harmonize shade placed in increments. Isolation removed. Occlusion and interproximal contacts checked and modified. Finish and polish. Pt. satisfied with color and contour.

Non-surgical caries tx: Patient has switched to diet soda, using Rx 5000 ppm F at bedtime daily. Will need refill next appt.

Pt dismissed doing well.

Treat patient's caries- documentation sample

Med Hx review: No changes P 2% 34 mg, 0.017 mg epi. *Shad Isolation:* Rubber dam placed

Procedure: Prepared #4 MO, # phosphoric acid, Optibond FL p

Student copies non-surgical caries notes, pastes into new note attached to the **D0603 code**: ADA CDT code for High Caries Risk Patient

Faculty swipes both codes to complete

Harmonize shade placed in increments. Isolation removed contacts checked and modified. Finish and polish. Pt. s

ion and interproximal

Non-surgical caries tx: Patient has switched to diet soda, using Rx 5000 ppm F at bedtime daily. Will need refill next appt.

Pt dismissed doing well.

Sample chart entries:

In Progress	Tx History	Tx Plans	Forms	Attac	hments	Pe	rio Lak	s Medicati	ons Chart Add				
Date	Prov./User	Code	Site	Surf.	Stat	Phase	Location	Discipline	Diagnoses			Appr. User	Description
11/15/16	J. Mitchel	D0603			Ι	0	MCGC14	DIAG				J. Mitchel	Caries risk asse
12/08/16	J. Mitchel	Note				0	MCGC14					J. Mitchel	ls Last Modified: (
	First F vam a	oplied. Pt still sip	ping on	coffee wit	h sugai	r. Empha	sized role (of sugar in carie	S.				
01/25/17	J. Mitchel	Note				0	MCGC14					J. Mitchel	ll⇒ Last Modified: (
	Diet follow up	- Pt states he h	as switch	ned to swe	etener	in coffee	B.						
02/07/17	J. Mitchel	Note				0	MCGC14					J. Mitchel	🕒 Last Modified: (
	Pt working or	decreasing sin	iple carb	snacks- p	oretzels	, chips- a	and substit	uting fresh vege	tables. Discussed w	with patie	nt's wife, who i	is enthusiastic about in	nproving patient's diet. Shi
03/01/17	J. Mitchel	Note				0	MCGC14					J. Mitchel	l⇒ Last Modified: (
	Pt now aware	of dry mouth a	t night. F	lecommen	ided us	e of Xyli	Melts at be	edtime after bru	shing with 5000 ppm	n Ftooth;	paste.		
04/21/17	J. Mitchel	Note				0	MCGC14					J. Mitchel	l⇒ Last Modified: (
	Second F var	n app <mark>lied</mark> .											
05/02/17	J. Mitchel	Note				0	MCGC14					J. Mitchel	🕒 🗳 Last Modified: (
	Pt asked abo	ut sports drinks	. Advised	l that they	do not	help per	formance i	n routine sports	, suggested tap wat	ter, flavor	red if preferred		
06/05/17	J. Mitchel	Note				0	MCGC14					J. Mitchel	👆 🖉 ast Modified: (
	Pt states he has d/c'd moming orange juice. Drinking tap water when exercising.												

Chart notes also attached to the D0603. Not long but personalized and effective!

How competency works

Part 2. Completing the competency- Chart Review

• Student chooses a patient with documented management of caries. Does not have to be same patient as used in Part 1.

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• Student sends email to faculty:

- Chart number and patient initials of chosen case
- Student attaches a one-page reflective essay per structured prompt
- Faculty reviews chart, essay against the rubric.

How competency works

Part 2. Completing the competency

Essay Prompt: Write a few pithy, self-reflective paragraphs on what you learned from doing this competency:

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- 1. Why was it important to do this competency *over time*?
- 2. What elements were easy to remember, and which were the most challenging for you to complete? Any insight into your thoughts?
- 3. How did your patient react to your advice, and how did you manage your own reaction to that, and theirs?
- 4. Did you try Motivational Interviewing techniques, and did they help?

Competency Part 2 Checklist:

Attached to the D0603 code, notes documenting:

- □ All recommended **F varnish** done at the correct intervals?
- Documented history of **patient counselling** on diet and oral hygiene?
- Product recommendations for additional items like arginine chews, green tea products, adhesive xylitol melts for overnight use documented in chart.
- □ If indicated, patient evaluated for new caries after 6-9 months?
- □ **Prescription** for 5000 ppm F toothpaste in place?
- All minimally invasive treatment completed (as time permits)?

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Rubric for Caries Competency Part 2

•Documentation of patient counseling, CRA

•Prescribed F varn completed

•Thoughtful selfreflection

	Standard	Pass	No Pass : >2 errors or any *critical errors		
Documentation		Paperwork correctly prepared in advance: Competency form prepared correctly. Self-eval submitted per instructions	Competency paperwork not completed in advance		
do	Chart ocumentation	Show documentation attached to D0603 of caries related items during active treatment: Dietary counselling (ideally 1/mo), comments on patient attitudes to changes (ideally 1/mo), F varn applications at prescribed intervals. OHI an adjunct, but not the only type of preventive instructions. Smoking cessation, while admirable for perio/oral cancer, NOT related to caries experience.	 Evidence in chart but not attached to D0603. Student must provide a list of items by date to facilitate chart review. * Critical errors: *Planned F varm not done in timely manner. * Documentation of patient counselling and progress not documented every 1-3 months, or does not address patient's caries risk factors. 		
tion if > 6 mo	CRA Assessment	Caries Risk Assessment completed with accurate updated information, especially diet and salivary factors.	*Critical Errors: = *CRA out of date (>12 months) = *CRA re-eval significantly incorrect (Ex- pt put in low risk because ggegg completed. If >3 lesions, pt stays in High Risk for 3 gg)		
CRA Re-Evaluation if	Maintenance Tx Plan	Patient recommendations appropriate for individual's risk assessment (ję, salivary reduction > particular product choices) per current caries guidance	 Patient recommendations not appropriate for individual's risk (up to 1 error) *Critical error- Preventive plan not completed/updated within 12 months 		
Self-evaluation		Self-evaluation submitted per instructions that includes reflection on lessons learned, items student would do differently, skills in patient management and motivational interviewing learned	*Critical Errors: = *No self-eval submitted = *Superficial reflection that does not show evidence of significant learning.		
Final Assessment		Pass	Fail More than 2 errors or any *critical errors		

Part 2- Completing

Overview of Competency Process

Exam- Start at least 3-5 patients, follow for minimum 6 months

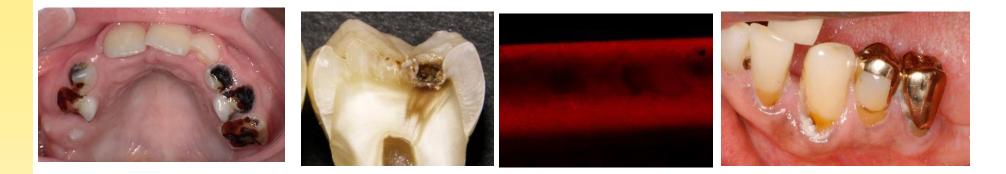
Manage patient's caries

PART 1 Initiate competency by	Treat lesions, including sealants and PRRs	Complete competency		
demonstrating skills:	Prescribe high dose F	PART 2		
- Diagnose caries	toothpaste if appropriate	After at least 6 months, email		
- Caries risk assessment and preventive tx planning, ie F	Document monthly appropriate follow up:	a request for chart review of documentation of		
varnish if appropriate	- Dietary counselling with	appropriate counselling and treatment. Include a reflective self -		
 Restorative care treatment planning 	specific recommendations based on CRA findings.			
	- F varnish per schedule	evaluation on management of the case. See prompt		
Enter D0603 "In Process"	- OHI, products as needed	questions.		
	- Dry mouth products	Course director completes		
L	by linking copy of chart notes to D0603	competency. Move D0603 to Complete		

Spring

Summer Fall

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Caries Management Competency: Implementation of this new CODA requirement

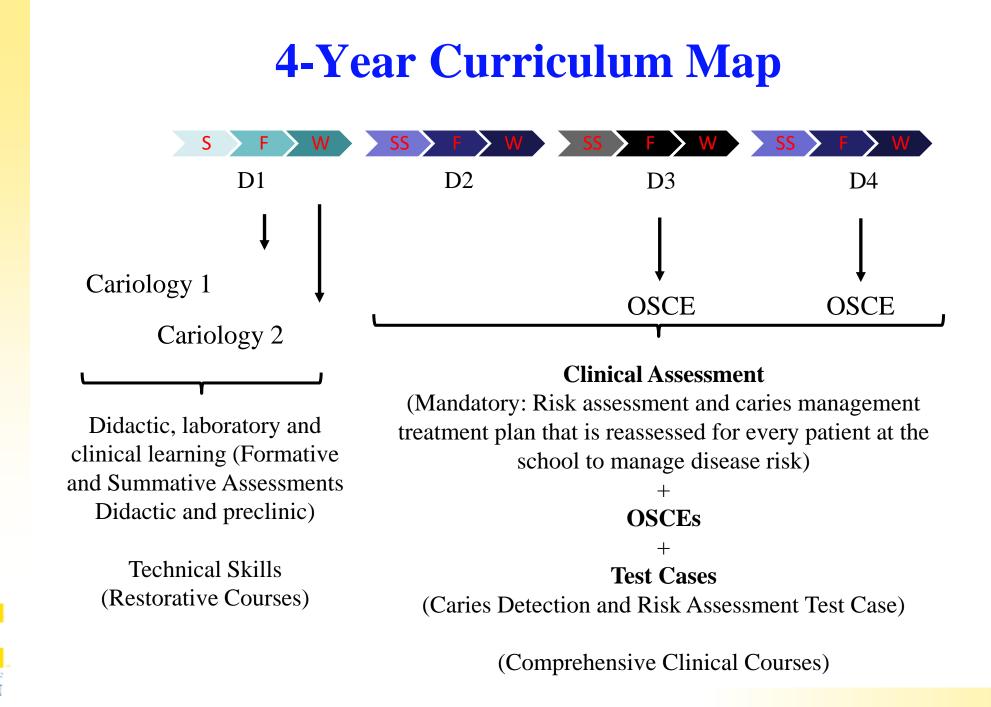
University of Michigan Cariology Curriculum and Assessment

Margherita Fontana, DDS, PhD

Clifford Nelson Endowed Professor of Dentistry University of Michigan School of Dentistry Department of Cariology, Restorative Sciences and Endodontics



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STYLE MADE

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MICHIGAN

Case-based clinical decision making and assessment



HEALTH EDUCATION THROUGH ACTIVE LEA

VIRTUAL

0 0

CLINIC







 Assessment of student's ability to ANALYZE AND EVALUATE...

Critical thinking and clinical decision making based on evidence in caries detection, risk and management

For every patient **in clinic** complete and reevaluate periodically:

In Progress Tx History Perio Forms Attachments Labs Medica	tions]	
Change Date 01/27/2016		In Progress Tx History Perio Forms Attachments Labs Medications	
		Change Date 01/27/2016	
Caries Risk Caries Management		Caries Risk Caries Management	
Form Question	Answer	Form Question	Answer
Does the patient have any signs of caries experience? (clinical + radiographically)	Y	Based on the identified patient's problems, please provide a treatment plan that	Answer
Active non-cavitated caries lesions	Y	will address problems listed and increase protective factors.	
Are factors present related to recent caries experience or increased risk?	Y	will address problems instea and increase protective factors.	
2.1 (Stagnant) plaque in caries susceptible sites	Y	1. Fluorides (If patient is Moderate to High risk, Additional Fluoride MUST be	
Deep pits/fissures	Y	added.)	
🖄 2.2 Saliva	Y	 Prescription high concentration F 5,000 ppm (e.g., Prevident, ClinPro) 	Y
 Salivary Flow Tested (Additional Assessment for at Risk Patients) 	Y	Directions for use	Use in place of regular toothpaste
Unstimulated flow test	Schimer < 10ml / 3min	🖄 2. Daily Oral Hygiene	
Stimulated flow test	Less than 0.7ml/min	Brush at least twice daily (with fluoride toothpaste)	Y
i 2.3 Diet	Y	🖾 3. Diet	
Frequency of fermentable carbohydrates snacks between meals, including	More than 3x/day	Reduce frequency of sweetened beverages	Y
candies or lozenges with sugar		4. Sugar-free gum	
 2.4. Inadequate Protective Modifying Factors 	Y	5. Antibacterial products	
Frequency of brushing	Less than 1x/day	6. Additional management	v
Frequency of flossing	Never	Restorative treatment Prescription salivary stimulants	Y Y
2.5 Conditions that affect compliance	Y	Trescription salivary sumulants	1
Physical (motor coordination/pain)	Y		
i Is this a re-assessment?	N		
Caries Risk	High		



Low Risk

UNIVERSITY OF MICHIGAN

Moderate Risk





High Risk

Predictive Validity of a Caries Risk Assessment Model at a Dental School

Emily Brons-Piche, George J. Eckert, Margherita Fontana J

J Dent Educ 2019

Table 1. Number of patients in each risk category and their characteristics

Variable	All	Low	Moderate	High
Patients	447	93 (21%)	112 (25%)	242 (54%)
Female, N (%)	236 (53%)	58 (62%)	65 (50%)	113 (47%)
Age: Mean (SD)	56.6 (18.5)	60.4 (17.0)	60.5 (18.9)	53.4 (18.3)
Follow-up time in years: Mean (SD)	2.2 (0.8)	2.3 (0.8)	2.3 (0.8)	2.1 (0.8)
Number of new lesions: Mean (SD)	2.6 (3.4)	1.4 (1.7)	1.9 (2.3)	3.3 (4.1)

Table 2. Percentage of patients in each caries risk category based on number of caries lesions developed during follow-up period

Number of New Lesions	High Caries Risk	Moderate Caries Risk	Low Caries Risk
≥1 new lesion	65%	46%	41%
≥2 new lesions	45%	23%	20%
≥3 new lesions	32%	15%	10%
Note: Relative rates were adjusted for d	ifferent follow-up times. Number of r	new lesions were categorized as	yes/no: ≥ 1 or ≥ 2 or ≥ 3

Model (AUC: 0.82); Significant (p<0.001) factors:

Past/current caries experience (OR 23.7) Dietary risk factors (OR 3.2) Visible plaque (OR 2.6) Salivary risk factors (OR 2.6) Conditions that affect compliance (OR 2.4) Lack of adequate protective factors (OR 2.1)





Cariology: Pass Cariology courses and Assessments: Midterm, Final, Practical exam, and Clinical Test Cases (D1) Pass D3 and D4 OSCEs ╋ **Pass Caries Risk Assessment and Management Test Cases in Clinic (D3 and D4)** (currently under change, and considering audit of patient cases to further demonstrate competency)

Assessment (initial and at re-assessment) of:

Caries diagnosis (clinical and radiographic) Risk Assessment and justification Disease Management and Prevention

(Note: Assessment of Restorative skills is separate)



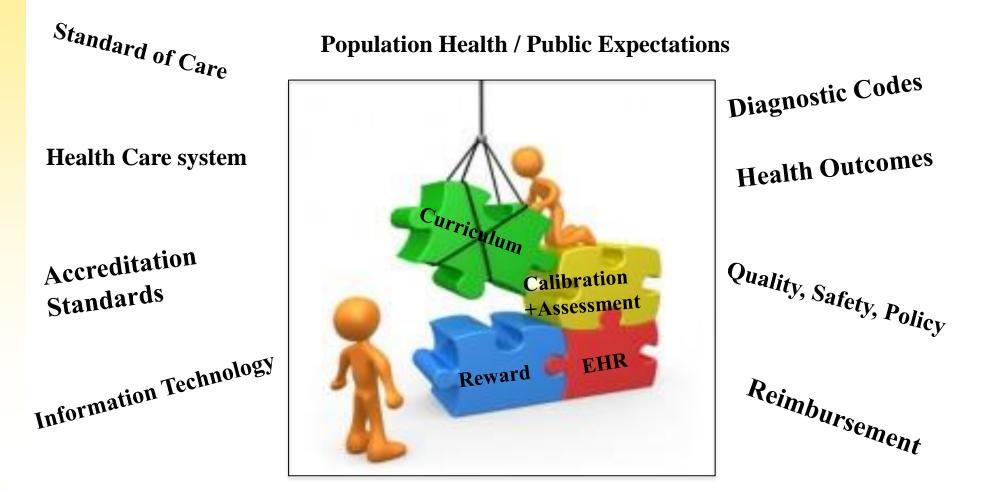
Example rubric • Patient must at least 1 active caries lesion and be a new patient at the school at start

A grade below 68 or and/or evaluation with 1 V or >2 T's will result in a failure and a need for a
passing performance on a retake. A successful retake will have a score of 75 used to as the final
grade for that test case.

Caries Risk Assessment	R (25)	S (17)	T (0)	V (0)		
	Clinically Ideal	Clinically Acceptable	Clinically Acceptable, Modifications Preferred.	Clinical Procedure Repeat or Major Modifications Necessary.		
Diagnosis: Clinical and radiographic caries	 All cavitated, non- cavitated (active), and/or carious root surface lesions detected and diagnosed correctly 	• 1 - 2 (if they have 4 or more lesions) cavitated, or non- cavitated (active), or carious root surface lesions missed	 Half of cavitated, or non-cavitated, or carious root surface lesions missed 	 More than half of existing cavitated, or non-cavitated, or carious root surface lesions missed 		
Risk Assessment	 Assessment is accurate and complete Risk category accurate 	-	 Assessment is inaccurate or incomplete Risk category accurate 	 Assessment is inaccurate or incomplete Risk category inaccurate 		
Disease Prevention and Management	 Management plan is comprehensive, appropriate and personalized to patient's needs 	• Management plan has 1 or 2 missing areas	• Management plan has 3 missing areas	 Management plan has 4 or more missing areas or is grossly inadequate Or plan does not include fluoride (at home and in office) and it is not justified 		
Reassessment	 Treatment plan was completed A reassessment of risk and treatment plan at appropriate interval 	 Treatment plan was completed A reassessment of risk and treatment plan was done at inappropriate interval 	 Treatment plan was completed No reassessment of risk and treatment plan at appropriate interval 	 Treatment plan was not implemented No reassessment of risk and treatment plan at appropriate interval 		



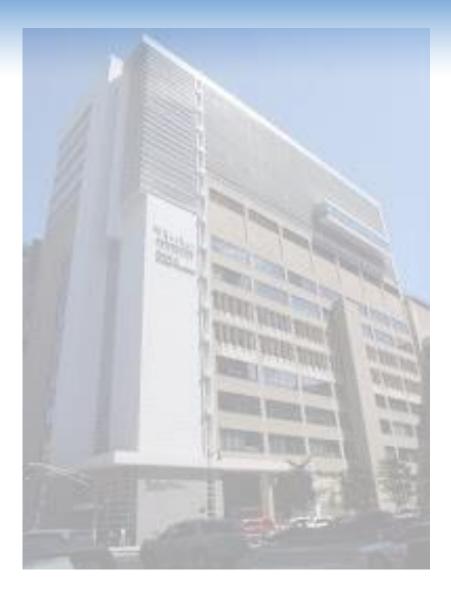
Implementation Factors (Internal and External)To Consider To Facilitate Success





Thank you!

The Cariology Curriculum at Tufts School of Dental Medicine



Andrea Ferreira Zandona, DDS, MSD, PhD

Professor and Chair

Department of Comprehensive Care



SCHOOL OF DENTAL MEDICINE Department of Comprehensive Care

TUSDM Competencies Statements related to Caries Management

PATIENT-CENTERED CARE:

Graduates must be competent to provide comprehensive patient-centered care across all age groups, that includes individual health needs, financial perspectives, and psychosocial background in oral health assessment and management.

DIAGNOSIS:

Graduates must be competent to formulate differential or definitive diagnoses by collecting and interpreting findings from medical and psychosocial histories, clinical and radiographic examinations, and other diagnostic tests.

TREATMENT PLANNING:

a. Graduates must be competent to develop comprehensive, evidence-based, properly sequenced treatment plans based on diagnosis and risk assessment as well as financial considerations.

b. Graduates must be competent in effective communication with the patient or parent/guardian the risks and benefits of the proposed treatment plans.

ORAL HEALTH PROMOTION:

- a. Graduates must be competent to promote optimal oral health to diverse patient populations through individualized interventions, behavior change counseling, and plain language education.
- b. Graduates must be competent to communicate and collaborate with dental team members and other health care professionals to prevent disease and promote oral and oral-systemic health.

Caries Management:

Graduates must be competent to assess patient caries risk and design an appropriate evidence-based preventive and management plan



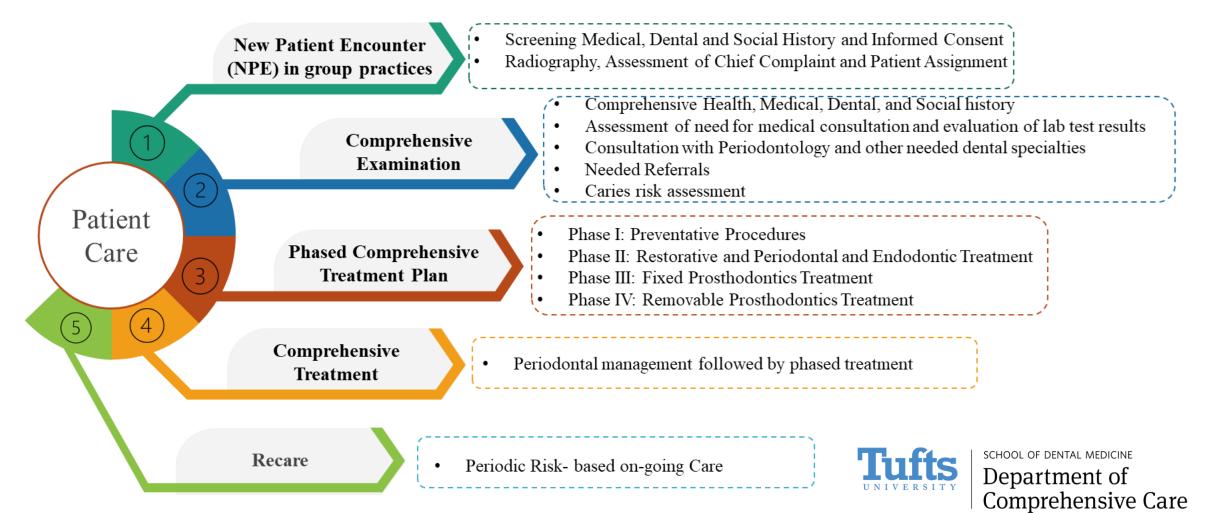
school of dental medicine Department of Comprehensive Care

CLASSIFICATION SYSTEM USED AT TUSDM

ADA CCS	Sound	Ini	tial	Moderate		Advanced		Advanced		Tooth Conditions
ICDAS	0	1	2	3	4	5	6	+ × 6		
Clinical Appearance				- B	٢		1	Tooth Conditions Tooth 15		
			5				1	C0000, Caries C0001, Initial: Active (primary caries)		
Clinical Presentation	No evidence of visible caries (no or questionable change in enamel translucency)	A carious opacity of discoloration (whit and/or brown cario not consistent with appearance of sou which show no evi breakdown or und shadowing	e spot lesion ous discoloration) h clinical nd enamel and dence of surface	A white or brown localized enamel I without visible der an underlying der obviously originate being evaluated	breakdown, ntin exposure, or n tin shadow, which	A distinct cavity v	vith visible de	 C0002, Moderate: Active (primary caries) C0003, Advanced: Active (primary caries) C0004, Initial: Active (caries associated with a restoration) C0005, Moderate: Active (caries associated with a restoration) C0006, Advanced: Active (caries associated with a restoration) 		
Activity		Inactive:		in plaque stagnatio		Dentin is soft or i probing Dentin is shiny an probing		 C0007, Initial:Active Root Caries C0008, Advanced: Active Root Caries C0010, Initial: Arrested (primary caries) C0011, Moderate: Arrested (primary caries) 		
Radiographic Appearance	U			Ċ		prome		 C0012, Advanced: Arrested (primary caries) C0013, Initial: Arrested (caries associated with a restoratio C0014, Moderate: Arrested (caries associated with a restoratio C0015, Advanced: Arrested (caries associated with a restoratio C0016, Initial: Arrested Root Caries 		
Radiographic Presentation	No radiolucency	Radiolucency m the DEJ or oute		Radiolucency e middle 1/3 of d		Radiolucency of inner 1/3 of de		CO017, Advanced: Arrested Root Caries		

<u>Doma</u>	1115.	Base (DI) Risk Assessment, & Nonsurgical Therapy, & Clir		Domain III. Preventive Therapy, Nonsurgical Therapy, & Clinical Decision Making (DIII)	Domain IV Therapy & Decision Ma	& Clinical	Domain V. Evidence-Based Cariology in Clinical & Public Health Practice (DV)		
				Both Semesters (All 4 th Yea	ır)				
	Year 4	ComprePediatrie	 Community Service Learning Externship (CSLE) Program Rotation (DII, DIII, DIV) Comprehensive Care Clinic Rotations (DII, DIII, DIV) Pediatric Rotation (DII, DIII, DIV) Radiology Rotation (DII) 						
		F	all Semester	Spring Semester		th Semester	rs (All 3 rd Year)		
	Year 3	Operative	Prep Workshop (DIV)	 Community Service Learning Externship (CSLE) Program Rotation (DII, DIII, DIV) Sim. WS Caries (DII) Sim. WS Operative (DIV) Sim. WS Pediatric (DIV) 	 Pediatric CSL Rotation (DII, DIII, DV) Pediatric Rotation (DII, DIII, Pediatric Rotation (DII, DIII, DIV) Pediatric Rotation (DII, DIII, DIV) 				
			Fall Semester	Spring Semeste	r	Both Seme	sters (All 2 nd Year)		
	Year 2	Materials (D	to the Operative	Endodontics (DIV) Geriatric Dentistry (DI, DII, DIII) Management of Medically Complex Patients (MCP) (DII, DIII) DIV) • MPE CAMBRA Workshop (DII. DIII) • Operative Dentistry (DIII) Radiology Rotation (DII)		• Introductio (DII)	on to Clinical Protocols (ICP)		
			Fall Semester	Spring Seme	ster	Both Sem	esters (All 1 st Year)		
48	Year 1	 Dental Ar 	cial Biology (DI, DII, DIII, DV) natomy (DI) cion to Research (DV)	Oral Health Promotion/Po Health (DI)	opulation Oral		fessionalism(DI, DIII) n to the Dental Patient (IDP) (DI)		

Student's Patient Care Sequence in Comprehensive Care Clinic



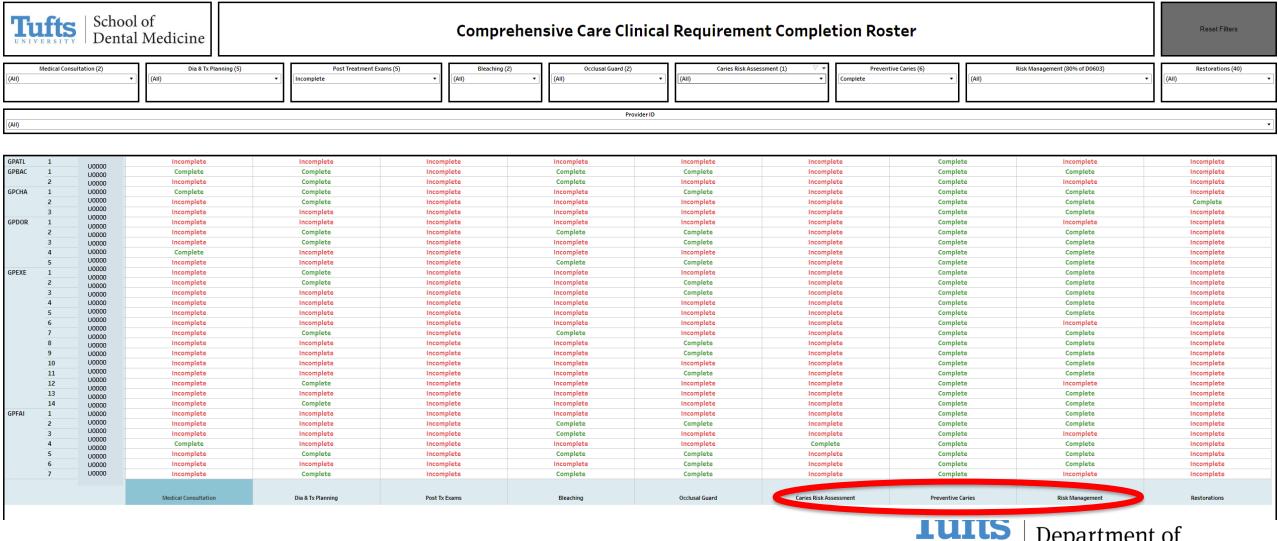
Clinical Experiences in Caries Management

Year	Clinical Experience
2/3/4	Comprehensive Care Clinics
2	Diagnostic Sciences Rotation: Maxillofacial Pathology/ Oral and
3	Maxillofacial Radiology/Oral Medicine/Craniofacial Pain
3	Geriatrics Dentistry Community Service-Learning Rotation
3	Medically Complex Patients Rotation
3	Pediatric Community Service-Learning Rotation



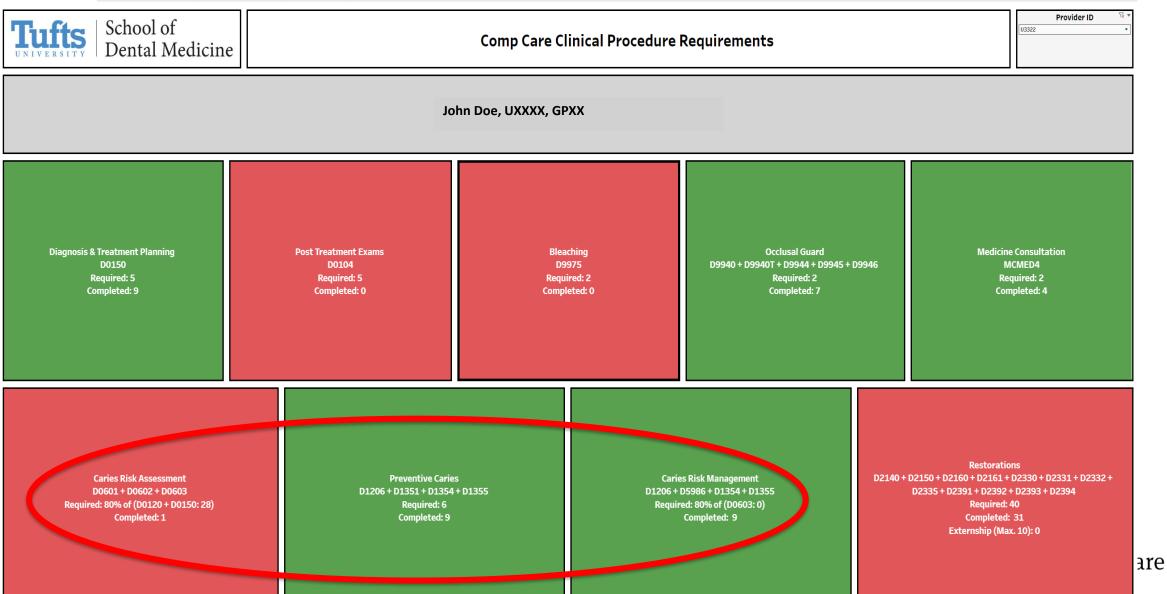
Comprehensive Care Clinical Experience Assessment

Comprehensive Care Clinical P... Comprehensive Care Clinical P... Comprehensive Class Report Detailed DCA Report



Comprehensive Care Clinical Experience Assessments

Comprehensive Care Clinical P... Comprehensive Care Clinical P... Comprehensive Class Report Detailed DCA Report



Caries Management Clinical and Simulated Competencies

Year	Clinical Competency Examinations (CCE)
3/4	Diagnosis and Treatment Planning Competency (1)
3/4	Diagnosis and Treatment Planning Competency (2)
3/4	Diagnosis and Treatment Planning Competency (3)
3	CAMBRA Assessment
4	CAMBRA Management
4	Pediatric Dentistry Diagnosis and Treatment Planning
4	Pediatric Prevention and Oral Health Promotion
4	Pediatric Pit and Fissure Sealants
4	Caries Detection Simulated Practical Competency Examination



Rubric

			3	2	1	
ТОР	Co	mpetency Feedback (Ge	eneral Question Header)		tions:	
			Exceeds	Meets	Below /Critical Error	
	1.	Ethics (General Question	on)			
	2.	Technical/Clinical (Tx	Comprehensive Caries Management Plan			
		Specific Header) Interpretation health history				
			Patient Caries Risk Assessment			
			Description of Recommended Tx			
	3.	Knowledge (Tx Specific Header)	Major Factors/Barriers/Challenges			
			Prognosis			
			Self-Assessment			
		Organization	Teledentristy Guidelines			
BOTTOM	4.	Organization	Time management			
	5.	Professionalism/ Practice	Attentive to Patient needs			
		Management	Adherence to TUSDM Policies			
			Establishes shared Agenda			
			Open Ended Questions			
	6.	Patient-Centered	Asks about Barriers to OH Care			
		Communication	Plain Language			
			Behavior-change strategies			
			Prompts teach back			

	3	2	1
Criteria	Exceeds expectations ALL Meets Expectations + below item(s)	Meets Expectations	Below Expectations/ Critical Errors
Technical/Clinical Skills	Exceptional skill presenting an individualized preventive treatment plan; all CAMBRA best practices incorporated	Independently presents a comprehensive preventive treatment plan, based on the patient's individual risk <u>factors</u> and aligned with CAMBRA best practices, with minimal errors/omissions Interprets relevant dental, <u>medical</u> and nutritional history prior to the telehealth visit with minimal errors/omissions	Unable to effectively complete the telehealth visit without assistance or intervention from faculty
Knowledge	No errors or omissions in caries risk level analysis or comprehensive prevention plan Demonstrates exceptional knowledge of CRA and prevention planning	Accurately analyzes patient's caries risk level and applies correctly to develop a prevention treatment plan Accurately describes recommended treatments (OTC, prescription, and/or in-office treatment) including mechanism of action/ benefits/use of preventive materials) to the patient Accurately self-assesses minor errors or omissions in CRA or prevention plan	When prompted, unable to retrieve key knowledge such as the CRA and its role in preventive dentistry or rationale for recommended interventions Does not provide accurate patient education regarding the individual risk factors, the caries process, and/or recommended interventions Incomplete knowledge of relevant elements of patient medical/dental/nutrition history
Organization	Exceptional management of all aspects of the telehealth visit, including organization and time management	Independently conducts telehealth visit and follows tele dentistry guidelines* Manages time and technology (zoom meeting and screen sharing) well with minimal assistance	Does not follow telehealth guidelines Unprepared and/or manages time poorly
Professionalism/Practice management	Maintains composure under challenging stressors Exceptional attention to patient needs in a complex situation Respectful of patients, staff, faculty, and fellow students during a challenging situation	Attentive to patient needs Accepts constructive feedback Adheres to TUSDM guidelines and policies, including but not limited to informed consent and HIPAA	Student does not ensure patient's personal health information is HIPPA protected Disrespectful behavior toward the patient and/or faculty Tardy to appointment Prioritizes self-interest over patient needs Provides unauthorized patient care Fails to follow specific faculty instruction Resistant to constructive faculty feedback
Patient- <u>Centered</u> Communication	In addition to verbal education, provides patient with written plain language instructions or patient education materials Demonstrates exemplary skills for effective behavior change counseling Demonstrates exemplary communication skills using plain language and effective use of teach back	Asks the patient/caregiver about their concerns and expectations/agenda Uses conversation and open-ended questions to gather health information and to prompt patient's/caregiver's questions Directly asks patient/caregiver about psychosocial factors/barriers relevant to their oral health and health care Provides plain language explanations of diagnosis/care plan Student applies individualized strategies to encourage the patient to change behaviors to improve their oral health Student prompts teach back to ensure patient's	Student does not explore the patient's concerns and expectations. Primarily uses jargon in patient conversations Student does not address any patient- specific behavior changes for oral disease prevention Student does not prompt teach back correctly to ensure patient understanding of key concepts/information

Faculty Calibration

Department of Comprehensive Care

CLINICAL PROTOCOLS SCHOLARLY ACTIVITIES LECTURES SCHEDULES FACULTY – ONLY NEWSLETTERS CONTACT INFORMATION

Clinical Protocols

The clinical protocols created by the Ad-Hoc Operative Calibration Committee for the Department of Comprehensive Care include:

Operative Procedures: Guide for Faculty and Students for Initiation of Restorative Phase of the Treatment Plan Use of Silver Diamine Fluoride in Predoctoral Clinics – Department of Comprehensive Care – Approved August 2019 Caries Excavation Guidelines – Approved April 24, 2020 Threshold of Surgical Intervention for Caries Management of Primary Lesions Guidelines – Approved May 1, 2020 Indications for repairing versus replacing restorations – Department of Comprehensive Care – Approved May 6, 2020 Indications for direct versus indirect restorations – Department of Comprehensive Care – Approved May 8, 2020 Caries Detection and Assessment – Approved March 11, 2021 Non-Surgical Management of Dental Caries – Approved April 1, 2021



Caries Management Competency

Marcelle M. Nascimento, DDS, MS, PhD Ana Paula Ribeiro, DDS, MS, PhD Rebecca M. Sikand, DDS Deborah A. Dilbone, DMD









Didactic and Clinical Training

Student experiences related to health promotion and disease prevention, including caries management:

Preclinical Courses

1st year: Cariology and Preventive Dentistry

2nd year: Introduction to Clinical Diagnosis and Treatment Planning

Clinical Courses

3rd year: Clinical Operative Dentistry 1-3

4th year: Clinical Operative Dentistry 4-6



Competency Assessments

How overall competency is assessed to determine the graduate's readiness:

Preclinical Assessments



1st year: Cariology and Preventive Dentistry

2nd year: Introduction to Clinical Diagnosis and Treatment Planning



Clinical Assessments

3rd year & 4th year: Caries Management Skills Assessments



Clinical Assessments

How overall competency is assessed to determine the graduate's readiness:

Clinical Courses

3rd **year:** Clinical Operative Dentistry 1-3

→Caries Risk Assessment and Management Skills Assessment

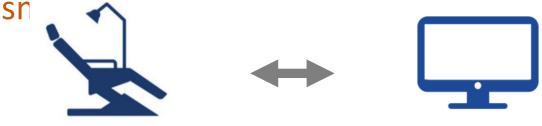
4th year: Clinical Operative Dentistry 4-6

Caries Management Case Completion Skills Assessment

Caries Risk Assessment and

Management

3rd year Skills Assessn



Comprehensive Oral Examination **Axium Electronic Forms:**

- Caries Risk Assessment
- Caries Management

Caries Diagnosis*

Risk Factors*

Caries Risk Assessment and

Management

Form Question	Answer		
Appointment Type (click the answer space for drop down menu)	Initial Caries Risk As	ssessment	
Location	DMD clinic		
Disease Indicators			
White spot, active enamel carious lesions	Y		
High - Greater than 2 noncavitated lesions	Y	[!] C-Risk Assessment Low Caries Risk Moderate Caries Risk High Caries Risk Extreme Caries Risk	
Specify tooth number(s), surface, and lesion depth; e.g.: #29 M (E1)	6-11	For Question	1.0
Radiographic proximal enamel lesions (not in dentin)	Y		Answer
High - More than two E1 or E2 lesions	Y	Our assessment reveals you are at a high risk of having new dental decay in the near future	2 .
Specify tooth number(s), surface, and lesion depth; e.g.: #29 M (E1)	4,5,19,20,29,30	We want to help you to move to a safer situation to avoid new cavities. We strongly recommend the following:	
Radiographic lesions into dentin	Y	Review your dietary habits with us and receive dietary counseling.	Y
Specify tooth number, surface, and lesion depth; e.g.: #29 M (D1)	14,31	Switch to sugarfree beverages.	v
 Radiographic progression of lesions over time 	N	Reduce the frequency of sugared snacking.	Ý
Cavitated, active lesions	Y	Brush your teeth well and at least twice a day with a fluoride toothpaste for 2 minutes.	Y
Tooth Numbers(s)	2,3,21,28	Brush at least twice daily with a prescription 5,000 ppm fluoride toothpaste.	Y
 Secondary, active carious lesions 	N	Don't skip the brushing just before bedtime; it is the most important one!	Ŷ
 Root, active carious lesions 	N	Floss between your teeth at least 1x/day before brushing, especially before bedtime	Y
Restorations placed due to caries in the last 3 years	Y	Receive the restorative work needed such as fillings and crowns.	Y
 High - 3 or more new restorations in past 3 years 	Y	Get a thorough professional dental cleaning every 3 to 6 months.	Y
Tooth Number(s)	7,10	Get in-office fluoride application after dental cleanings.	Y
DMFT score: total number of teeth with decay (D), missing due to caries (M), and restored due to caries (F)	9	Return for a recall exam every 3 or 6 months to re-evaluate your current caries risk.	Y
		Have new bitewing x-rays taken every 6 to 18 months to check for new cavities.	Y
Risk Factors - Contributing Conditions			
Presence of dental plaque	Y		
High - visible, heavy plaque	Y		
Brushing	Ν		
2 Flossing	N		

Caries Risk Assessment and

Management

3rd year Skills Assessment



Assessment Criteria

- Should be completed prior to any other skills assessment and <u>MUST</u> be completed during 3DN Junior year in clinic.
- 2. Must call operative faculty for evaluation at least 30 minutes before patient dismissal time and patient must be present in the chair.
- **3.** Must be completed on one of your own assigned COE patients. This skills assessment cannot be completed on another student's patient.
- 4. Must be done on a patient with High Caries Risk.
- 5. Patient needs to have 12+ teeth remaining that are not planned for immediate extractions.
- 6. Codes and Forms that need to be completed independently:
 - a. Hard Tissue Code (D00085) and Physical Form
 - b. Caries Risk Assessment Code (D2070) and axiUm Form
- **7.** Radiographic interpretation must be completed and then reviewed by faculty as part of the hard tissue examination.
- 8. Caries Risk Assessment axiUm Form: must recognize and diagnose patient's needs from hard tissue exam and translate the risks and protective factors into a correct caries risk diagnosis.
- **9.** Must develop a caries management plan for patient to reduce risks and increase protective factors.

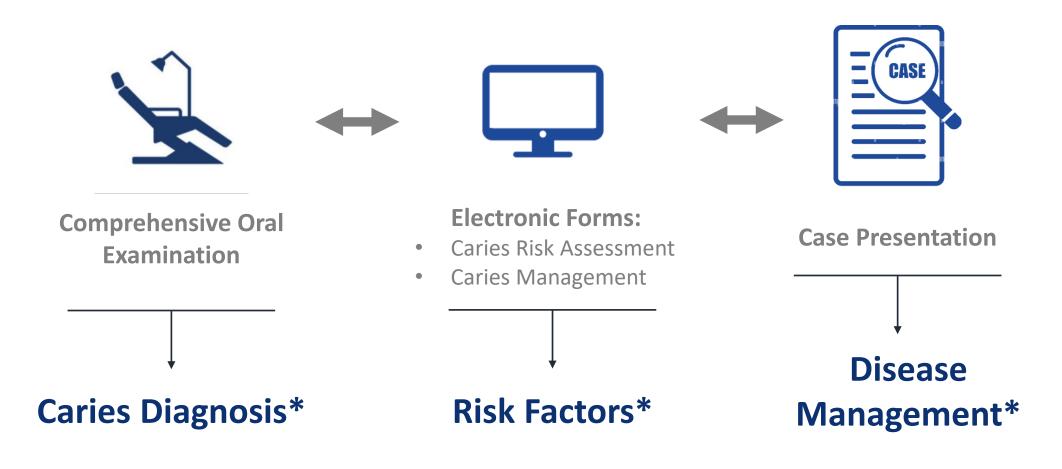


3rd year

Question						Grade	Grade	Descrip	otion			
GRADE	E: Profe	essionali	sm			Р						
Case Sele	rtion					P						
Evidence-		iudamer	vt.			P						
Compliance	-	-		etde		P						
Interpersor			Control	3(03		P						Add another
Time Mana						P					<u>^</u>	- evaluation
nme Mana	igemer	IL				-						
											v.,	
						T	Time (Hrs)		To	tal RVU		<u>V</u> iew Oth
Procedure	Site	Surf.	Stat.	Description	RVU	Question				Grade	User	Other Forms
D2070			С	Caries Risk Ass	30.00	Competence	y pass or fail	?		Р	-	
					0.00	Classificatio	n			СМ		
						Caries Risk /	Naccoment (`amaatar				
						Any "Fail" wi			-			
					0.00		y presented			Р		
					0.00		gnose clinica		Case	P		
					0.00	Identify risk		ily/xidy		P		
					0.00	-	tective factor	2		P		
					0.00		licator/factor		es risk	P	-	
					0.00		oper caries p		aa nan	P		
					0.00	Identify con				P		
					0.00	-	educate patie			P		

Caries Management Case Completion

4th year Skills Assessment



Caries Management Case Completion

4th year Skills Assessment



Assessment Criteria

- 1. Must be completed on a patient assigned to you as the primary provider.
- 2. Patient must have been diagnosed **initially as High or Extreme** Caries Risk Status with **12+ teeth**.
- 3. Must have completed at least:
 - a. An initial Caries Risk Assessment
 - b. A **second** Caries Risk Assessment (any number of additional assessments can be completed within the minimum time frame of 6 months)
 - c. A **final** Caries Risk Assessment (must be at least 6 months out from the initial assessment)
- **4.** All Caries Risk Assessments that are presented MUST be completed by the student calling competency and ideally should have been completed by operative faculty.
- **5.** Must be presented as a power point presentation with the patient present in the chair. See Canvas for examples.
- **6.** The final Hard Tissue and Caries Risk Assessment can be completed on the day of the presentation and added to the power point.
- **7.** The focus of the presentation must be on how the patient's caries risk has been managed via balance between risk factors and protective factors
- **8.** Ideally, the caries risk status should be lowered, however, this is not required as long as the student can demonstrate that they have balanced the risk factors and protective factors.
- Must be graded as a competency in axiUm using the Skills Assessment paperwork. The carbon copy stays with the student and the white page goes into the clinical forms box in each clinic.



ath	Case Presentation	
4 ^m year	The student successfully presented the completed case, which included documented changes in: carious active lesions, risk factors, and risk level (circle): YES NO. If no, explain:	FΡ
UF FLORIDA College of Dentistry Division of Operative Dentistry		
UF FLORIDA Division of Operative Dentistry	Change in the Activity of Carious Lesions	
Clinical Skills Assessment Caries Management - Case Completion Form	The student was able to detect changes in the activity of carious lesions and/or to detect and diagnose new active lesions: noncavitated, cavitated, and recurrent.	FΡ
	Change in Risk Factors	
Student Name: Chart #: Date of Initial Caries Risk Assessment:/ (must be completed by the same student)	The student was able to identify new, changed and/or unchanged risk factors and contributing conditions such as amount of plaque formation, oral hygiene habits, dietary habits, defective restorations, appliances, medical risk factors, dry mouth, etc.	FΡ
Date of Caries Risk Re-Assessment:// 2 nd Caries Risk Re-Assessment:// (if done).	Change in Risk Level	
Date of Case Completion Caries Management Assessment:// (minimum 6 months after initial CRA) Initial Risk Level: HIGH EXTREME	The student was able to modify the initial caries management plan based on the patient's specific needs and risk level. In addition, behavior modification techniques have been incorporated to balance the disease indicators, risk factors and	- D
Current Risk Level: LOW MODERATE HIGH EXTREME	protective factors which decreased the patient's caries risk (circle): YES NO. If no, explain	FP
Main goals of initial caries management plan:	Professionalism and Patient Management	
Problems encountered during re-assessments & changes made on management plan:	The student demonstrated a conceptual understanding and insightful application of relevant scientific evidence.	FΡ
·	The student utilized universal precautions and complied with regulations regarding infection control, hazard communication and medical waste disposal.	FΡ
	The student was prepared and was familiar with the patient's dental and medical history and dental needs. The student demonstrated acceptable interpersonal skills while interacting with faculty, staff and the patient; including the appropriate use of effective techniques to manage anxiety, distress, discomfort and pain associated with this procedure.	FΡ
	The student managed time appropriately. The examination was completed by 11:00 AM or 4:30 PM.	FΡ
	One "F" in any category is a failure for the exam.	

Panel Discussion and Questions

