DEN8827L
Summer 2021

Course Description:
Intermediate comprehensive dental care of the pediatric dental patient.

I. General Information

Course Director:
Course Director: Christopher Connell
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Phone: (352) 273-7631
Course Credits: 1
Semester: Summer

Contributing Faculty
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Support Staff
Dawn R Perry (352) 273-7631 DPerry@dental.ufl.edu TA / Syllabus /
Grade Administrator

II. Course Goals
The main goal of this clinical course is to develop a general practitioner who is competent in providing basic oral health care to the child patient at the appropriate level and to certify readiness to begin independent practice.
The Department of Pediatric Dentistry advocates a philosophy of total patient care to achieve these competencies. While students do not provide comprehensive care to their patients, departmental faculty members are responsible for assuring the overall care for the patient during this block rotation.

III. Course Overview

This rotation emphasizes intermediate clinical skills involving diagnosis, treatment planning and preventive and therapeutic procedures for the pediatric patient. Two formative exercises in restorative procedures and four competencies are required to complete the course: 1) administration of local anesthesia prior to simple surgical procedure performed on a patient, and 2-4) three simulated restorative procedures on primary molars that include: a) pulpotomy, b) stainless steel crown, c) modified class II resin preparation and restoration. Prior to challenging the simulation competencies, the student must first successfully complete a series of exercises demonstrating these skills. A case-based seminar in a small group instructional setting is provided supported by assigned reading of four research-oriented articles on pediatric dental restorative materials and techniques.

IV. Course Outline

This 32 hour block rotation occurs in semester 9.

Monday,
7:45 am to 11:30 am and 1:45 pm to 5:00 pm clinic

Tuesday
8:00 am to 11:30 am and 1:45 pm to 5:00 pm clinic

Wednesday
8:00 am to 11:30 am clinic / No clinic in the afternoon

Thursday
8:00 am to 11:30 am clinic / 2:00pm-5:00pm (Seminar - Conference Room D11-11)

Friday
8:00 am to 11:30 am clinic / No clinic in the afternoon
V. Course Material


(This is the same text required in DEN7452L)

Canvas Documents Section: Orientation handout, assigned readings for the seminar, simulation exercise manual and competency evaluation forms.

**Optional resource:**

HSC Dental Library Guide

VI. Course Objectives

To attend all assigned rotation dates while providing pediatric patient care in a competent and professional manner and demonstrating competence in several common pediatric dental restorative and/or surgical procedures.

VII. Course Competencies

This course teaches the following competencies in the "Competencies for the New Dental Graduate".

Domain I: Critical Thinking –

1: Critical Thinking: Use critical thinking and problem-solving, including their use in the comprehensive care of patients, scientific inquiry and research methodology.

2: Evidence-Based Patient Care: Access, critically appraise, apply and communicate scientific and lay literature as it relates to providing evidence-based patient care.

3: Apply biomedical science knowledge in the delivery of patient care.

Domain II: Professionalism –

4: Ethical Standards: Apply principles of ethical decision making and professional responsibility.

5: Legal Standards: Apply legal and regulatory concepts related to the provision and/or support of oral health care services.

6: Appropriate Referral Provide oral health care within the scope of general dentistry to include recognizing the complexity of patient treatment and identifying when referral is indicated.
Domain III: Communication and Interpersonal Skills –

7: Communication Skills: Apply the fundamental principles of behavioral sciences using patient-centered approaches for promoting, improving and maintaining oral health.

8: Diversity: Manage a diverse patient population and have the interpersonal and communication skills to function successfully in a multicultural work environment.

9: Health Promotion & Disease Prevention: Provide oral health care within the scope of general dentistry to include health promotion and disease prevention.

Domain VI: Patient Care – A.Assessment, Diagnosis, and Treatment

12: Patient Assessment, Diagnosis, Treatment Planning and Informed Consent: Provide oral health care within the scope of general dentistry to include patient assessment, diagnosis, comprehensive treatment planning, prognosis, and informed consent.

13: Assess Patients with Special Needs: Assess the treatment needs of patients with special needs.

Domain VI: Patient Care – B.Establishment and Maintenance of Oral Health

14: Assessment of Treatment Outcomes: Provide oral health care within the scope of general dentistry to evaluate the outcomes of treatment, recall strategies and prognosis.

15: Patient Management: Provide oral health care within the scope of general dentistry to patients in all stages of life.

16: Emergency Treatment: Provide oral health care within the scope of general dentistry to include dental emergencies.

17. Provide oral health care within the scope of general dentistry to include restoration of teeth.

18. Provide oral health care within the scope of general dentistry to include communicating and managing dental laboratory procedures in support of patient care.

19. Provide oral health care within the scope of general dentistry to include replacement of teeth including fixed, removable and dental implant prosthodontic therapies.

20: Provide oral health care within the scope of general dentistry to include periodontal therapy.

21: Provide oral health care within the scope of general dentistry to include local anesthesia and pain and anxiety control.

22: Provide oral health care within the scope of general dentistry to include hard and soft tissue surgery.

23: Provide oral health care within the scope of general dentistry to include malocclusion and space management.
24: Provide oral health care within the scope of general dentistry to include pulpal therapies.

25: Provide oral health care within the scope of general dentistry to include oral mucosal and osseous disorders.

26: Provide oral health care within the scope of general dentistry to include screening and risk assessment for head and neck cancer.

This course certifies the following competencies in the "Competencies for the New Dental Graduate".

7: Communication Skills: Apply the fundamental principles of behavioral sciences using patient-centered approaches for promoting, improving and maintaining oral health.

9: Health Promotion & Disease Prevention: Provide oral health care within the scope of general dentistry to include health promotion and disease prevention.

15: Patient Management: Provide oral health care within the scope of general dentistry to patients in all stages of life.

17. Provide oral health care within the scope of general dentistry to include restoration of teeth.

VIII. Evaluation

Student evaluation is based upon the following course components:

1. Attendance
2. Two Formative Assessments and Four Competency Assessments
3. Quality of Performance
4. Professionalism and Patient Management
5. Productivity

Attendance and competency completion are required.

1. Attendance: Mandatory 100% attendance (8 half-day clinic sessions) is required.

Excused absences: Any planned absence must be excused by the course director. The Office of Academic Affairs must be informed of any unplanned absences, such as illness or personal emergency, that morning, and the absence must be made up by the end of the semester. Makeup Sessions are arranged by the Office of Academic Affairs, the Course Director, and Dawn Perry (TA/Grade Coordinator). Depending on the circumstances of the unplanned excused absence(s), consideration may be given to the issuance of an "I" grade in the course. Otherwise, students without 100% attendance by the end of the semester will receive an "E" in the course and given a maximum of 4 weeks into the next semester to remEDIATE to a "D" grade in the course.
If changes are needed to be made, this must be approved by the Course Director, and the appropriate forms need to be completed and signed. Students will need to trade one-for-one with a class mate to change rotation sessions. In addition, the Office of Academic Affairs has to be informed as well.

The following are **unacceptable** reasons for changes to the rotation schedule:

- Taking National Boards
- To complete requirements or to work in another clinic or rotation
- For an interview, unless a reasonable attempt has been done for another date

**Unexcused absences:** Any student late for their pediatric clinic session by 20 minutes or more, will be required to make-up the session.

Any student leaving the clinical session without the instructor's approval will be required to make up the session, and will not receive credit for procedures they completed during that session.

Any student with an unexcused absence will be required to make up the missed session by the end of the semester, and will automatically receive one lower grade than earned in the course for each infraction.

Any student that completes a missed session without an authorization of the Office of Academic Affairs and the course director will receive a lower grade than the one earned in the course for every infraction.

**Assigned Readings for Seminar**


2. Pulp Exposure Occurrence and Outcomes after 1- or 2-visit Indirect Pulp Therapy Vs Complete Caries Removal in Primary and Permanent Molars, Pediatric Dentistry, 2010

3. Twenty-four-month clinical evaluation of fissure sealants on partially erupted permanent first molars: Glass ionomer versus resin-based sealant, JADA 2012


**2. Formative and Competency assessments:** There are 2 required formative assessments and 4 required competency assessments (see Documents Section for sample competency forms). Faculty members are the preferred evaluators for a student's self-assessment and
competency assessment, but residents may also assist with the evaluation of the student if faculty are unavailable. The required competency assessments are as follows:

1. **Formative assessment:**

Patient care procedure: Students will be required to complete a minimum of two of the following procedures based on patient availability: Sealant (may only be used for one formative assessment), Class I or Class II amalgam or composite, anterior composite, pulp therapy, stainless steel crown, or extraction.

2. **Competency Assessment:**

2a. **Patient Competency Assessment**

Administration of local anesthesia performed concurrently with a formative assessment.

2b. **Simulation Competency assessments on a Typodont using rubber dam isolation:**

1. Modified Class II (DO) preparation and restoration with composite resin on tooth L

2. Pulpotomy (access opening and pulpal debridement only) on tooth K

3. Stainless steel crown preparation and crown adaptation on tooth K

All simulation competency assessments are preceded by instructional exercises that provide student practice with faculty feedback. These exercises include:

1. Modified Class II (DO) preparation and restoration with composite resin on tooth S

2. Modified Class II (DO) preparation and restoration with resin modified glass ionomer on tooth T

3. Pulpotomy (access opening and pulpal debridement only) on tooth K

4. Stainless steel crown preparation and crown adaptation on tooth K

The student elects when to challenge a competency assessment. (The simulation competency assessment is best challenged when patient care is not available due to a canceled or broken appointment.) All competency assessments require student self-assessment of performance.
prior to requesting faculty evaluation. Self-assessment of each specific criteria outlined in the competency form is based on a satisfactory/unsatisfactory score. The student is expected to independently perform the competency assessment without outside guidance or critique. Any student obtaining outside assistance will fail the competency assessment and must repeat it. If a critical error is made in any of the specific evaluation criteria, the competency assessment must be repeated. Only 3 attempts of anyone competency assessment are permitted before a remediation program will be established by the course director. The student will be dismissed from the rotation and rescheduled for another rotation after satisfactory completion of the remediation goals.

Competency assessment is graded on a Pass/Fail basis. Critical errors leading to failure are identified on the competency assessment grading forms. The student will fail the competency if any critical errors in any category are noted. Feedback is provided to students during competency assessments for each evaluation criteria listed on the form, but the overall competency assessment is graded on a pass/fail basis. (See competency assessment forms in the Documents section.)

Failure to satisfactorily complete the required competency assessment during the assigned rotation will require additional clinic sessions before the end of the semester. As with absences, make-up session(s) are arranged by the Office of Education. Depending on the circumstances, the course director may give consideration to the issuance of an "I" grade in the course.

**Students must pass all competency assessments, to receive a passing grade in the course.**

3. Quality of Performance: The student is globally evaluated following each patient encounter for the overall quality of care rendered based upon the same 4-1 scale and criteria listed above.

4. Professionalism and Patient Management: The student is evaluated following each patient encounter based on the criteria established by the UFCD (see Documents Section for details). Scoring is based on a 4-1 scale. The lowest score in all of the five following sections is the single score recorded for that patient encounter.

1. Evidence-based judgment
2. Interpersonal skills and use of behavior management strategies
3. Compliance with infection control standards
4. Time management
5. Preparation for procedure
5. **Productivity**: Productivity is based on the total accumulation of RVUs earned during the rotation. (See attached table in the document section of the procedures point scale). The student is therefore rewarded for generation of procedures or when assisting another dental student. Each procedure is assigned an RVU based upon the anticipated time that a typical student would require to complete the procedure. Each minute of patient contact is equal to 1 RVU.

As an example:

**Pediatric Dentistry Clinical Rotations**

**Procedures Point Scale**

<table>
<thead>
<tr>
<th>COE/POE Prophy Child</th>
<th>COE/POE Prophy Adolescent</th>
<th>Limited Exam D0140</th>
<th>Sealant D1351</th>
<th>Extraction D7111</th>
<th>Extraction D7140</th>
<th>Anterior Composite</th>
<th>Posterior Composite</th>
<th>Sedative Filling D2940</th>
<th>SSC D2930 or D2931</th>
<th>IPC/DPC D3100 or D3120</th>
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</tbody>
</table>

- On a patient, each sealant is 20 points to a maximum of 50 points (i.e., 7 sealants on the same patient will count for a total of 50 points)
- Codes for anterior composite: 1 surface (D2330); 2 surfaces (D2331); 3 surfaces (D2332); 4+ surfaces (D2335) Resin Strip crown (D2390)
- Codes for posterior composite: 1 surface (D2391); 2 surfaces (D2392); 3 surfaces (D2393); 4 surfaces (D2394)
- Codes for stainless steel crown: primary tooth (D2930); permanent tooth (D2931)
- Codes for pulpal therapy: indirect pulp cap (D3120); direct pulp cap (D3110); pulpotomy (D3220)
- Codes for prophylaxis: child (under 12 y. old) prophylaxis (D1120); adult prophylaxis (D1110)

At the end of the course, the students assigned to a week period with the same amount of patients will be gathered together. The grade will be based on the average amount of RVU's during those weeks and calculated into a grouped quartile.

4.00 = total RVU production in the upper quartile
3.75 = total RVU production in the middle two quartiles
3.50 = total RVU production in the lower quartile

**Course Grading Criteria**

The final course grade is calculated using these weighted factors:

- Quality Performance - an average score given at each patient encounter = 20%
- Professionalism - average score given at each patient encounter = 10%
- Productivity - score based on RVUs produced = 70%
- 4 Competencies - Pass or Fail

**Remediation:**

Course Remediation: See description under "Attendance" and "Competencies" above.

**Student Evaluation of Instruction:**

“Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://ufl.bluerare.com/ufl/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluerare.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.”
IX. Administrative Practices

Administrative practices for all UFCD courses are universally applied. Exceptions to or deviations from these practices are stated in the individual syllabi by the course director. When not individually stated in the syllabus, course administrative practices default to those identified under "Course Policies" on the DMD Student Website:

https://dental.ufl.edu/education/dmd-program/course-policies/

X. Grade Scale

DEN8827L Grade Scale

Letter Grade
Scale 100
Tolerance 0.5

A – 95 – 100
A- – 91 – 95
B+ – 87 – 91
B – 83 – 87
B- – 79 – 83
C+ – 74 – 79
C – 69 – 74
E – 0 – 69
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<td>3.4 - 3.65</td>
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