DEN8809L: Advanced Oral Surgery

Fall 2021

Course Description:
This course applies the knowledge gained from previous clinical and didactic courses. The student will learn to perform oral surgery within the scope of general dental practice, obtain hospital orientation, and manage dental emergencies.

I. General Information

Course Director:
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Course Credits: 2
Semester: Fall

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II. Course Goals
The clinical curriculum in the Department of Oral & Maxillofacial Surgery and Diagnostic Sciences provides clinical experiences for the student in patient evaluation, diagnosis, treatment of common dental emergencies, simple extraction of erupted teeth, surgical extraction of erupted teeth, basic preprosthetic surgery, diagnostic biopsy and early treatment of odontogenic infections. The foundation knowledge and skills acquired through these experiences contribute to the development of a general dentist competent in basic oral and maxillofacial surgery.
### III. Course Overview

Student Oral and Maxillofacial Surgery Clinical Courses Overview

**PLEASE NOTE:**

- ALL Comprehensive Care Patients being seen for routine Oral Surgery MUST have a consultation completed with a Full-time OMFS Faculty member AT LEAST THREE CLINIC Days prior to the patient’s appointment in the SOS Clinic.
- Patients without Consults and appropriate consultations with replies from the physicians MAY NOT be seated for their appointment.
- Seniors on rotation are not available for assisting with Comprehensive Care Patients.

<table>
<thead>
<tr>
<th>Semester</th>
<th>9-11</th>
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<tbody>
<tr>
<td>Course #</td>
<td>DEN8809L</td>
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<tr>
<td>Credit Hours</td>
<td>2</td>
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| Minimal Clinical Experience | 25 Total  
  9 Extractions  
  4 alveoplasties,  
  2 surgical extractions |
| Surgical Assists | 5 |
| Cognitive Objectives  
*Must complete by the end of Fall* | Patient Management I  
Patient Management II  
Medical Emergencies  
Complications of Exodontia  
Management of Dental Infection  
Nitrous Oxide Sedation (6hrs)  
Senior Check Out Packet |
| Competency Assessment | 1 Clinical Management: Patient with Acute Dental Needs |
IV. Course Outline

The clinical courses in the Department of Oral Surgery are designed to provide a rotational experience for students in the Oral and Maxillofacial Surgery Emergency Dental Clinic. Each student must successfully complete clinical competencies in both junior and senior rotations in the OMS Emergency Dental Clinic, a required number of clinical procedures, cognitive objectives and surgical assists.

NOTE: Even though you will be officially registered for this clinical course in the Senior Spring, Semester 11, your clinical performance in semesters 9, 10, and 11 will determine the course grade. "Carry-over" credit from Semesters 6, 7 or 8 for alveoloplasties completed as part of DEN7805L will be given for surgical procedures over 4. Clinical requirements not completed during semesters 6, 7, and 8 are to be completed in addition to the requirements for semesters 9, 10, and 11 for a minimum total of 38 extractions, 4 surgical extractions, 8 alveoloplasties and 15 surgical assists. (Surgical assists will not “carry-over” but do need to be completed if minimum requirements were not met the previous semesters.)

V. Course Material

Required Texts


Optional resource:

HSC Dental Library Guide

VI. Course Objectives

Learning Experiences/Competency

The learning experiences in the Oral and Maxillofacial Surgery curriculum include:

- Self-instructional material on dental emergencies.
- Group discussions of foundation knowledge in the areas of local anesthesia, asepsis, postoperative instructions, management of postoperative complications, suturing and diagnosis and treatment of emergency patients.
- Providing clinical care to patients in the Emergency Dental Clinic.
- Assisting faculty and residents with advanced surgical cases.

Cognitive Objectives:

Seven cognitive objectives are required to be completed by the student during 8809L. These objectives are completed in teams (groups). A grade of satisfactory or unsatisfactory will be
given. Each student will be required to participate to the faculty member's satisfaction. Cognitive objectives will be completed with specific faculty members, as assigned below. A written short answer exercise which is a narration of the objectives discussion may be completed in lieu of the participation group exercise.

Satisfactory completion of all seven cognitive objectives will earn the student 10 grade points. Cognitive objectives account for 10% of the total grade and must be completed by the end of the spring semester of the senior year.

1. Patient Management I

   1. Discuss the clinical signs, diagnostic tests and preparation of patients for routine oral and maxillofacial surgery with the following medical conditions:
      a. Hypertension
      b. Diabetes mellitus
      c. Cardiac disease

2. Patient Management II

   1. Discuss the clinical signs, diagnostic tests and preparation of patients for routine oral and maxillofacial surgery with the following medical conditions:
      a. Pregnancy
      b. Corticosteroids
      c. Anticoagulation
      d. Immunocompromised patients

3. Medical Emergencies

   1. Discuss the following emergency conditions and their prevention and treatment:
      a. Asthma
      b. Syncope
      NOTE: This objective is to be completed every semester in the team program.
      c. Diabetes mellitus
      d. Cardiovascular
         1) Hypertension
         2) Myocardial Infarction
         3) Cerebrovascular Accident
      e. Anaphylaxis
      f. Compromised airway

   2. Be prepared to discuss the following areas with your evaluator:
      a. The role of oxygen therapy, hypotensive drugs, nitrates, antihistamines, epinephrine, and steroids in the treatment of emergencies in the dental office.
      b. The role of the patient's history in the preparation for and avoidance of emergencies.
      c. A protocol for the preparation of a private dental office and its staff for the treatment
of emergencies.

3. You will show a CPR qualification card of Basic Rescuer or higher.

4. Complications of exodontia

1. Discuss the reasons for the following complications, their diagnoses and the required treatment.
   a. Oroantral (OA) fistulas
   b. Lost root tips
   c. Fractured root tips
   d. Nerve injuries
   e. Aspiration/ingestion of dental objects

5. Management of Dental Infection

1. Discuss the microorganisms that cause dental infections, the dental conditions associated with them, their clinical presentation and the appropriate treatment for various dentally-related facial infections.
   a. Pericoronitis
   b. Space infections
   c. Insertion and drainage procedures

6. Nitrous Oxide Sedation

1. Perform nitrous oxide/oxygen sedation effectively and safely with supervision for a minimum of 6 patient-contact hours. (These hours can be "carried-over" from Semesters 6, 7 and 8.)

2. Discuss the following areas with your evaluator:
   a. Armamentarium used for nitrous oxide/oxygen sedation
   b. Respiratory physiology
   c. Mechanism of action of nitrous oxide
   d. Care and hazards of high pressure equipment
   e. Care and hygiene of inhalant therapy equipment
   f. Hazards of recreational use of nitrous oxide
   g. Hazards of therapeutic use of nitrous oxide/oxygen sedation

VII. Course Competencies

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.
4. Ethical Standards: Apply the 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 a referral is indicated.

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

21. Provide oral health care within the scope of general dentistry to include local anesthesia and pain and anxiety control, including consideration of the impact of prescribing practices and substance use disorder.

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

VIII. Evaluation

Clinical Expectations:

Establish a minimum number of Surgical Experiences and Surgical Assists

- 25 surgical experiences (SE):
- 19 extractions,
- 4 alveoplasties,
- 2 surgical extractions with flap
- 5 Assists

* Surgical Experience would require the student to be the primary surgeon on each procedure

Clinical Competency Assessment/Clinical Management:

Patient with Acute Dental Needs (See evaluation rubric in the Documents section.) Seniors must have completed at least one of these in a previous rotation prior to challenging competency. Students must declare competency assessment and conduct care independently.

**Senior Objectives: Cognitive objectives due by the end of Fall Semester.**

Use the E-Learning/Canvas link in the Documents section.

COGNITIVE Objectives Assignments:

Six cognitive objectives are required to be completed by the student during 8809L. These objectives are completed in teams (groups). A grade of satisfactory or unsatisfactory will be given. Each student will be required to participate to the faculty member's satisfaction. Cognitive objectives will be completed with specific faculty members, as assigned below. A written short
answer exercise which is a narration of the objectives discussion may be completed in lieu of the participation group exercise.

Satisfactory completion of all cognitive objectives must be completed to receive an "S" grade in the course.

**Assessment Criteria**

**Performance Criteria for Clinical Procedures and Clinical Competencies**

To receive credit for a clinical procedure/surgical experience, the student must perform at a minimally acceptable level or above to receive a "pass" on a daily grade.

To receive credit for clinical competency, the student must receive a pass grade. **The student MUST successfully pass the competency assessment during the course to pass the course.**

The student will receive a "fail" for daily grade or competency assessment - indicating a deficiency in one or more of the following:

1. The chief complaint and history of present illness
2. The review of the medical history, to include past medical history, current illnesses and symptoms, medications and allergies
3. Accurate vital signs, to include blood pressure, pulse, respirations and temperature
4. A correlation between a positive finding in the medical history and the dental diagnosis and or required treatment
5. Performance of appropriate diagnostic tests (pulp testing, probing)
6. The development of an appropriate differential diagnosis which correlates the chief complaint, clinical and radiographic findings
7. Adequate pain control techniques
8. Appropriate stress management techniques
9. Appropriate choice of treatment based upon the diagnosis
10. The use of strict infection control techniques
11. Obtaining an informed consent for the proposed procedure
12. The clinical procedure, to include the appropriate extraction, a non-traumatic simple or surgical technique, incision design and suturing technique
13. Providing appropriate preoperative and postoperative information to the patient
14. Providing correct analgesic or antibiotic medications

**Clinical Competency Assessment:**

Clinical Competency Assessment: Clinical Management: Patient with Acute Dental Needs (See evaluation rubric in the Documents section.)

Relationship between clinical procedures and clinical competency assessment:

Clinical competencies must be graded by one, oral and maxillofacial surgery faculty member. A clinical competency must be declared by the student to the faculty member prior to the oral
presentation and procedure.

**The following four criteria are evaluated for every clinical case or competency.**

1. **Medical history**: Areas of evaluation include a thorough current and past medical history, past and current medication and their action, allergies to drugs or latex, and a past surgical history. Tobacco, alcohol and or drug use.

   Critical Error: Failure to identify a significant finding in the medical history that contraindicates dental treatment, such as a recent myocardial infarction, blood dyscrasias, radiation therapy to the head and neck region, and or medication usage; failure to identify a drug allergy or latex allergy; failure to identify the need for antibiotic prophylaxis according to the AHA guidelines.

2. **Diagnostic work-up**: Areas of evaluation include the chief complaint of the patient, history of present illness, vital signs to routinely include blood pressure and pulse and a temperature for those patients with an odontogenic infection, radiographic interpretation and a complete head and neck oral examination.

   Critical Error: Failure to record vital signs; failure to develop an appropriate differential diagnosis that correlates to the chief complaint, radiographic findings and the clinical examination.

3. **Procedure**: Areas of evaluation include anesthesia technique, instrumentation, flap design and execution, alveoloplasty as needed, closure of surgical wound, biopsy technique & infection control. For a non-surgical procedure, referral for endodontic therapy, pain management and or restorative or prosthetic repair.

   Critical Error: Inappropriate anesthetic technique; gross violation of infection control guidelines; extraction of the wrong tooth; unnecessarily traumatic, surgical procedure which injures adjacent tissue, excessive bone removal.

4. **Patient management**: Areas of evaluation include the informed consent; preoperative explanation to the patient; postoperative instructions; post-operative prescriptions to include analgesics, antibiotics or other necessary medication; disposition, self-evaluation.

**Critical Errors:**

1. **Medical history**: Failure to identify a significant finding in the medical history that would contraindicate dental treatment. I.e.: recent MI, blood dyscrasias, radiation therapy to the head or neck or medication use. Failure to identify drug allergy or latex allergy; failure to identify the need for antibiotic prophylaxis according to guidelines from AHA and ADA regarding heart and joint replacements.

2. **Diagnostic Work-up**: Failure to record vital signs; failure to develop an appropriate differential diagnosis that correlates to the chief complaint, radiographic findings and clinical examination.

3. **Procedure**: Inappropriate anesthetic technique; gross violation of infection control
guidelines; extraction of wrong tooth; unnecessarily traumatic surgical procedure which injures adjacent tissue, teeth, structures or bone.

4. **Patient management:** Failure to provide informed consent; observed unprofessional behavior toward the patient; failure to provide post-operative instructions or proper pain management; contraindicated prescriptions due to a drug allergy or drug interaction.

### Competency Evaluation

Evaluation of competency is a clinical experience observed from start to finish by one faculty member in the Department of Oral and Maxillofacial Surgery. For the case to be accepted as a competency requirement, the student must declare the case a "competency" at the time of case presentation to the OMS faculty member.

The clinical competency case is to be discussed with and approved by any oral and maxillofacial surgery faculty member prior to starting the procedure. The competency procedure is to be completed independently by the student and the student will complete a self-assessment at the time of faculty grading.

### Course Grading:

**Daily Grading:** SE’s and/or assists performed in the day.

**Competency Assessment:** Must receive a "pass" grade to receive a "Satisfactory" Grade in the course.

**Semester Grading:** cumulative ratio of S's: if more than 25% of the recorded grades in a semester were "U" (<75), the student would receive a U for the semester grade.

**Recording:** SE grades are viewable in axiUm for students to track progress each semester. Each student will be required to complete the minimum twenty-five (25) procedures (simple or surgical extractions, soft tissue biopsy, alveoloplasty or other preprosthetic surgeries, and treatment of dental emergencies). For the student to receive credit for the treatment, they must receive a grade of "Pass".

**Competency Remediation:** If a student does not pass the competency assessment they must attempt again on another clinical case. Topic for review and presentation. If a student fails 2 competency attempts on the same type of surgical experience they must meet with the Course Director. A topic(s) will be chosen for student review and a date set for presentation to the Course Director.

**Course Remediation:** If the student receives a "U" for the final grade, they must meet with the Course Director who will assign a topic(s) for review and a date set for presentation to the Course Director. Additional clinical experiences may also be expected.

“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.bluera.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.bluera.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

This course uses a Satisfactory/Unsatisfactory grade scale in semesters 9 and 11. A letter grade scale is used in Semester 10.