

University of Alabama at Birmingham  
School of Dentistry  
Department of Periodontology

**SENIOR PERIODONTOLOGY COURSE**

**2003—2004**

**OBJECTIVES**

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SDB 412

UNIVERSITY OF ALABAMA  
SCHOOL OF DENTISTRY  
DEPARTMENT OF PERIODONTOLOGY  
SENIORS

**OBJECTIVES & PHILOSOPHY**

Periodontology is one of the cornerstones of the practice of dentistry. This is as true in the generalist's office as for the periodontist. The curriculum, therefore, strives to emphasize the importance of a thorough understanding of the etiology and pathophysiology of periodontal diseases. Competency in examination, diagnosis, treatment planning and clinical skills at a level for a general dentist including scaling and root planing are expected of all students. The graduating student should have knowledge of these basic diagnostic and treatment skills as well as an appreciation for the more advanced therapy available to the patient through a periodontist.

The student is encouraged to seek guidance at any time from the faculty. We sincerely want your clinic periods to be a learning experience and feel that this can only be accomplished through student-teacher dialogue and instruction.

**COMPREHENSIVE CARE**

The Comprehensive Care Program for the Department of Periodontology is designed to assure that upon graduation you will be able to manage patients with periodontal disease. This will include the examination of patients for periodontal diseases, diagnosis of periodontal diseases, planning and treatment of periodontal disease.

**To meet these goals the Department of Periodontology requires that you complete the following:**

**1) The treatment planning and periodontal treatment of at least four (4) new patients with periodontal disease.** These new patients should at least include the following patients:

*A Gingivitis Patient.*

This patient will have clinical signs of gingival inflammation. Probing pocket depths may be 3 mm or less. There are no signs of alveolar bone loss on radiographs.

*Two Patients with mild Periodontitis.*

These patients will present with localized [or generalized] 3-4 mm pockets and 2-3 mm alveolar bone loss from the CEJ visible radiographically. The treatment plan for the patient may or may not involve surgery.

*A Moderate Periodontitis Patient.*

This patient will present either with generalized or localized 5-6mm pockets and bone loss. Patients with severe periodontitis should be referred to your resident periodontist.

**For every patient you should select a faculty member to work with. All Treatment and evaluations of this patient should be preformed with that same faculty member. The Periodontal treatment summary sheets should be completed and grading of your**

management of that patient will occur after the different evaluation phases for this patient. The proper completion of this form is the responsibility of the student and is an important part of the evaluation of your educational progress. Care should be taken to appoint the patient when the faculty member for that case is scheduled in the clinic.

**2) Provide periodontal maintenance therapy for at least 4 patients.** These can be the patients that you treated in your junior year.

**3) A full-time Faculty Member of the department of Periodontology must approve the four new patient cases and the four maintenance patients by November 1, 2003.** Complete the attached Comprehensive Care Periodontal Patient List. Present the patients on this list to a full time faculty member. Upon approval by a full-time faculty member turn this form in to an administrator of the department in SDB 412. Only include patients that have agreed to treatment and are expected to be compliant. Failure to have approved cases and forms handed in by November 1, 2003 will result in a lowering of your case management grade by 10 points. A Full-time Faculty Member in writing MUST approve any substitutions.

**4) All students must pass required Competency examinations.** See attached standards.

**5) Periodontal care MUST take place during the entire senior year.**

**6) Complete three (3) surgical experiences.**

A surgical experience is either of the two following options:

- 1) a periodontal surgical procedure performed on your patient by yourself;
- 2) assist during a periodontal procedure performed by your resident periodontist

Proper pre-surgical planning, demonstration of knowledge of the surgical procedure, and participation in post-operative care are essential to successfully completing a surgical experience. Whether you perform or assist a surgical procedure, the case must be discussed with the assigned faculty member or resident prior to participating in the experience. Failure to do so will result in no credit for the surgical experience. The surgical experience evaluation and grading form is to be used.

**7) Completion of the Comprehensive Care Periodontal Patient Treatment Summary forms for all periodontal patients.** A sample of this form is attached. The completed forms with the grades and signatures of the supervising faculty member should be handed to an administrator of the department of Periodontology in room 412 before the end of the spring quarter. It is necessary to document the treatment on the forms at the time you perform the treatment and throughout the year.

**Comprehensive Care Periodontal Patient List**

Student: \_\_\_\_\_

Date: \_\_\_\_\_

Faculty Signature: \_\_\_\_\_

(1) Gingivitis patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

Faculty member \_\_\_\_\_

(2) Mild Periodontitis patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

Faculty member \_\_\_\_\_

(3) Mild Periodontitis patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

Faculty member \_\_\_\_\_

(4) Moderate Periodontitis patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

Faculty member \_\_\_\_\_

Recall patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

Recall patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

Recall patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

Recall patient

Patient's name \_\_\_\_\_

Record number \_\_\_\_\_

## Comprehensive Care Periodontal Patient Treatment Summary

**Student Name:** \_\_\_\_\_

**Faculty Member** \_\_\_\_\_

Patient Name & #: \_\_\_\_\_

Initial Exam Date: \_\_\_\_\_

Periodontal Diagnosis: \_\_\_\_\_

**Exit exam patient: Y/N** \_\_\_\_\_

**Faculty Approval:** \_\_\_\_\_

**Initial therapy:**

Date	Area	Procedure

**Phase I Evaluation:** Date: \_\_\_\_\_ Summarize the findings and decisions:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Phase II or Surgical Therapy:**

Date	Area	Procedure

**Maintenance Therapy:**

Date	Comments

**Evaluation of Periodontal Therapy and Treatment Recommendations:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## **PERIODONTAL TREATMENT**

The treatment of your periodontal patients will take place in the periodontal clinic. You can schedule clinic periods in the periodontal clinic based on availability of clinic space.

Treatment planning can be performed in the comprehensive care clinic. The periodontal treatment plan will have to be approved by a member of the periodontal faculty. Maintenance therapy can be performed in the comprehensive care clinic. Grading of the maintenance therapy then will be performed by the comprehensive care faculty using the periodontal grading forms and standards.

## **RESIDENT PERIODONTIST**

Every Comprehensive care group will have a Periodontal Resident assigned as their Resident Periodontist. Patients with advanced periodontitis should be referred to your resident periodontist. The front desk personal of the Periodontics clinic can schedule an appointment for the patient at 4-4551. A proper referral note should accompany the referral. After completion of your three surgical experiences as described above you can refer patients needing surgical procedures to your resident Periodontist. Your resident Periodontist will be able to help you plan and perform your surgical experiences as well as assist you in the management of your Periodontal cases. The daily teaching in periodontology will be performed by the scheduled faculty members. The resident Periodontist cannot administer the competency examinations. The resident Periodontist can refer patients to you for general dentistry.

### **Resident Periodontists**

#### **Dr. Alain Romanos**

Melissa Compton  
Rourk Freeman  
Amy Grigsby  
Jonathan Johnson  
Ricardo Ochinang  
Suzanne Teel  
Jo Ann Tubbs  
Jennifer Warren  
Niles Woodall  
Ron Yarbrough

#### **Dr. Eric Herrington**

Kari Bartlett  
Wendy Broussard  
Alan Derrick-Griffith  
Holt Gray  
John Green  
Kelli Hill  
Thuy Mai  
Eric Park  
Allyn Thames  
Jack Thigpen  
Thomas Willingham

#### **Dr. Ashvin Vasanthan**

Kendrea Burton  
Sam Chambers  
Patrick Davis  
Andy Grantham  
Fritz Harshberger  
Carrie Howard  
Kari Langley  
Michael Lowery  
John Poczatek

#### **Dr. Rob Harradine**

John Redding  
Keith Thompson  
James Hughes  
William King  
Joseph Labbe  
Laura Mahan  
Amy Sanders  
Michael Joel Stewart

**Dr. Todd Welch**

Joel Adams  
Helen Bloom  
Heather Burns  
Cheri Cunningham  
Eric DeVries  
Charles Greenleaf  
Jennifer Hauser  
Candice Johnson  
Joely Marim

**Dr. Waide Gaiter**

C.K. Kim  
Scott Anderson  
Michael Boohaker  
Stuart Curry  
Benjamin Field  
Eric Hughes  
Brad Litkenhous  
Reuben Moyana  
James Samford

**GRADING IN PERIODONTOLOGY**

For periodontal procedures you will receive a clinical daily grade and a patient management grade. A sample grading form is attached. You must turn a Periodontal grading form (see page 12) into the department for every patient. If periodontal treatment is performed in the comprehensive care clinic your patient care coordinators will forward your grading forms to the department of Periodontology. You will be graded on your technical clinical performance in your clinical grade as well as your patient management. Please make sure that the instructor writes the grades on the grading sheet. Always be sure that you know your grade and discuss the reasons for the grade with the instructor.

**Clinical Daily Grades:**

Standards for daily grading of the clinical performance are based on the standards for the competency examinations you completed in your junior year:

**For diagnostic procedures** (Initial examination, reevaluations) the following general guidelines will apply: the same standards apply to a test case and a clinical procedure.

- 0:** Fails to meet the minimum standards for passing the diagnosis test case
- 1:** Meets the minimal acceptable standards for passing the diagnosis test case
- 2:** Meets the expected standards for passing the diagnosis test case
- 3:** Exceeds expected standards for passing the diagnosis test case
- 4:** Well exceeds expected standards for passing the diagnosis test case

Evaluation Standards for the diagnostic test case:

- \* Medical history: The student has appropriate knowledge of the patient's systemic problems and gives appropriate consideration to medical problems which affect the delivery of dental care.
- \* Radiographic analysis: The student can find pathology related to the periodontium on the radiographs, and derive the proper treatment strategy of these radiographic findings.
- \* Occlusal analysis: The student can find discrepancies between RC and IC, fremitus, and malocclusions.
- \* Periodontal Probing: The student can probe with less than a 2 mm inaccuracy on all sites present

- \* Free gingival margin and mucogingival junction: The student can accurately detect and chart the free gingival margin and mucogingival junction within 1 mm.
- \* Furcation involvement: The student can accurately detect and chart the furcation involvement.
- \* Gingival Index: The student can accurately detect and chart the gingival inflammation present.
- \* Plaque Index: The student can accurately detect and chart the plaque present.
- \* Mobility: The student can accurately detect and chart the mobility present.
- \* Other Diagnostic measures: The student can recognize the need for other diagnostic measures and correctly perform these tests.
- \* Diagnosis: The student can diagnose the periodontal disease present correctly.
- \* Problem List: The student can derive a comprehensive problem list for this patient.

**For root planing procedures** the following general guidelines will apply:

- 0:** Fails to meet the minimum standards the root planing test case
- 1:** Meets the minimal acceptable standards the root planing test case
- 2:** Meets the expected standards the root planing test case
- 3:** Exceeds expected standards the root planing test case
- 4:** Well exceeds expected standards the root planing test case

Evaluation standards for the root planing test case:

- \* Instrument Usage: The student can demonstrate proper instrument usage and sharpening. The student can recognize dull or excessively worn instruments.
- \* Calculus removal: The student can demonstrate proper supra- and sub-gingival calculus removal leaving clean smooth root surfaces after root planing.
- \* Tissue trauma: The student can perform scaling and root planing without causing excessive tissue trauma.
- \* Patient management: The student can establish good pain control for scaling and root planing and has the correct cleanliness during the procedure.

### **Patient Management Daily Grades:**

- 0:** Fails to meet the minimum standards for patient management
- 1:** Meets the minimal acceptable standards for patient management
- 2:** Meets the expected standards for patient management
- 3:** Exceeds expected standards for patient management
- 4:** Well exceeds expected standards for patient management

The faculty will assess using the following standards for patient management:

- (1) Timely care of patient.
- (2) Consideration of individual patient needs and adjustments of treatment plans.
- (3) Timely recall of patient.
- (4) Organization and preparation for clinical procedures.
- (5) Use of broken appointment time. These sessions should be used to chart for other students, assist at surgery, or see emergency patients. You must have a care slip signed, indicating patient care has been performed.

- (6) Shifting of patients from one student to another may only be done with prior approval (in writing with a signature) of a Full-time Periodontal Faculty Member. Shifting of patients will be approved if in the patient's best interest.
- (7) Attitude: Display a positive disposition toward learning, colleagues, faculty, staff and patients and be reliable, punctual and cooperative.
- (8) Knowledge: Demonstrate an understanding of your work and at all times strive to obtain increased knowledge of concepts and methods.
- (9) Records Management: Dental records must be accurate, neat and legible and adhere to both the School and Department policies regarding patient records, particularly as relative to storage, security and confidentiality.
- (10) Asepsis and Infection Control: Adhere strictly to the policies and procedures set forth in our School's Infection and Hazard Control Manual.

Periodically you will receive a report including procedures completed and average grade by type of procedure and your patient management grade. Please report any discrepancies to the department immediately.

#### **Case Management Grade:**

In addition to grading on procedures, students are formally evaluated to determine that they are providing high quality patient management in a professional manner. The Periodontal faculty at the end of the quarter determines this grade. The following guidelines will be used for the Case Management Grade:

- The grading for the cases on your patient list by the faculty member
- Meet the minimal expectations for the specific quarter.
- Timely treatment of all periodontal patients
- The difficulty of the periodontal cases selected.
- Surgical experience grading
- The number of completed periodontal cases
- The number of periodontal procedures completed.

#### **Minimal expectations for every quarter**

Minimal expectations for Fall Quarter:

- \* Selection and approval by a full-time Periodontology faculty member of your 8 patients.
- \* Completion of the treatment planning for the four new periodontal patients.
- \* Initiation of the initial phase of treatment for the four new patients.
- \* Adequate maintenance care for the four recall patients according to their individual needs.

Minimal expectations for Winter quarter:

- \* Continuation of treatment of the periodontal patients.
- \* Completion of the initial therapy of the four new patients.
- \* Initiation of the surgical phase of treatment for patient(s) requiring surgical treatment.
- \* Adequate maintenance care for the four recall patients according to their individual needs.

- \* Completion of a total of at least two surgical experiences.

Minimal expectations for Spring quarter:

- \* Completion of the treatment of your four new patients up to the maintenance phase.
- \* Completion of the three surgical experiences.
- \* Selection of your Exit Exam patient prior to April 1.
- \* Passing of the competency examination: the Senior Exit Exam.
- \* Adequate maintenance care for the four recall patients according to their individual needs.
- \* Completion of the treatment summary form for all periodontal patients. These forms should be handed in to the Periodontology Department, room 412, before the end of the quarter.
- \* Proper summary of treatment and referral of your patients at the end of the year to ensure continuation of care.

### **THE FINAL GRADE**

The final grade is comprised of the Clinical Grade Average (30% weight), the Patient Management Grade average (30% weight), and the Case Management Grade (40% weight).

### **REMEDIATION**

Upon failure of the Periodontology Clinic II (4350), remediation will be determined by the Department of Periodontology.

## Department of Periodontology Grading Form

**Student** \_\_\_\_\_

**Patient** \_\_\_\_\_

**Date** \_\_\_\_\_

**Instructions:**

1. It is the student's responsibility to fill out this form; no credit will be given for the session if this form is not completed.
2. Student should report to the floor instructor before any clinical activity starts and gets proper starting check signature.
3. Student should fill the expected date for the patient's next visit in the Periodontology clinic, give a reason if there is no need for the patient to come back (e.g. patient will be treated in 2<sup>nd</sup> floor clinic).

**Starting check / Infection control** \_\_\_\_\_

Instructor's initials

Procedure code	Description	Teeth	Comment

**Patient to return by** \_\_\_\_\_

date

**Clinical grade** \_\_\_\_\_

**Patient Management grade** \_\_\_\_\_

- 0: Fails to meet the minimum standards
- 1: Meets the minimal acceptable standards
- 2: Meets the expected standards
- 3: Exceeds expected standards
- 4: Well exceeds expected standards

**Instructor's signature** \_\_\_\_\_

**Instructor #:** \_\_\_\_\_

*Please return completed form to **floor instructor** by the end of clinic session.*

## Surgical Experience Evaluation form

Student name: \_\_\_\_\_ Patients name: \_\_\_\_\_

Date of procedure: \_\_\_\_\_

Type of procedure: \_\_\_\_\_

Surgical assist: \_\_\_\_\_ or Surgery performed \_\_\_\_\_  
Name of Resident: \_\_\_\_\_

### Pre-surgical planing

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| Student discussed case prior to surgical treatment          | 0 | 1 | 2 | 3 | 4 |
| Student demonstrated understanding of the planned procedure | 0 | 1 | 2 | 3 | 4 |
| Pre-surgical planning adequate                              | 0 | 1 | 2 | 3 | 4 |

### Surgical procedure

- |  |   |   |   |   |   |
|--|---|---|---|---|---|
| Student participated in the pre-surgical prep of the patient | 0 | 1 | 2 | 3 | 4 |
| Student was familiar with the surgical procedure             | 0 | 1 | 2 | 3 | 4 |
| Student utilized good sterile surgical technique             | 0 | 1 | 2 | 3 | 4 |
| Student showed general interest in the procedure             | 0 | 1 | 2 | 3 | 4 |
| Student actively managed the patient during the surgery      | 0 | 1 | 2 | 3 | 4 |

### Post-operative care

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| Student participated in the post-operative instructions | 0 | 1 | 2 | 3 | 4 |
| Student scheduled to participate in the post-op care    | 0 | 1 | 2 | 3 | 4 |

**Clinical grade** \_\_\_\_\_ **Patient Management grade** \_\_\_\_\_

- 0: Fails to meet the minimum standards
- 1: Meets the minimal acceptable standards
- 2: Meets the expected standards
- 3: Exceeds expected standards
- 4: Well exceeds expected standards

**Instructor's signature** \_\_\_\_\_ **Instructor number:** \_\_\_\_\_

**COMPETENCY EXAMINATION**  
**SENIOR YEAR: EXIT ORAL EXAMINATION**

Before the end of the school year you must successfully pass this competency examination. This is a comprehensive oral examination to test your understanding of the management of periodontal diseases.

**Case Selection**

A Full-time Faculty Member will select with you the case with the most comprehensive periodontal case for the examination. The minimal acceptable criteria for your exit exam are a Patient with moderate periodontitis and one of the following:

- \* Surgical therapy completed or performed and additional therapy scheduled.
- \* Non-surgical treatment and at least 6 months post phase I eval or 2 maintenance visits .

Complete the “Comprehensive Care Periodontal Patient Treatment Summary” form (see attached) for all periodontal patients treated. Present these forms to a full-time Periodontology faculty member to select the exit exam case (for the selection of your case the patient does not need to be present). The selection of your Exit exam case must be done before April 1, 2004. Failure to do so will result in a 10 point lowering in your spring quarter grade.

**The Examination**

The examination may be taken at a recall visit for your patient or at an evaluation visit when the patient is to be placed on recall. A maximum of two students can take the exit exam per clinic period. A sign up sheet will be available at the front desk of the Periodontology clinic. Do not wait until the last weeks to schedule this exam.

You will chart the patient, and perform an examination. You and your instructor will then review the initial documentation (including records, charting and radiographs), the treatment plan and the treatment rendered, as well as the therapeutic outcome. You will be asked questions about your treatment, why it was selected, if you would want to change any aspects of the treatment, and why it was successful or unsuccessful. You will also be expected to make recommendations concerning recall interval, the overall prognosis, and any additional therapy needed. The grading sheet that will be used to evaluate your performance is attached. In order for you to pass this examination, a satisfactory grade in each of the four steps is required.

**If you fail this examination, you can retake it with another patient. Remember that your total number of treated cases is limited**

The following guidelines are suggested to help you achieve satisfactory grades in each of the steps.

1: Before the examination, review the patient's record and be familiar with all details of the case including past medical and dental history. Be sure all charting is complete, accurate, and up-to-date. Make sure all necessary radiographs have been taken and are available. Review the treatment plan. Be sure you know what treatment was rendered, when it was rendered, and what time intervals passed between various phases of treatment.

2: Be aware of any alternative treatment plans that were considered at the time the original treatment plan was formulated. Be prepared to discuss why this treatment plan was chosen over the other possible alternatives. If the original treatment plan was modified at any time, for example at Phase I evaluation, be able to discuss why modifications were made.

3: At this point in your presentation, we would like to know why you think the periodontal therapy rendered was successful. Among the factors to consider are: 1) the response of the soft tissue to therapy; 2) presence or absence of inflammation; 3) the ability and motivation of the patient to perform adequate plaque control; 4) patient satisfaction with the results of therapy; 5) the change in prognosis of the dentition as a result of your therapy; and 6) does the patient need retreatment.

4: We would like to know what additional therapy, including periodontology, or other dental therapy you plan to recommend for this patient. When considering the appropriate recall therapy and interval for your patient, it is important to consider the same factors mentioned in Step 3, with special emphasis on the patient's oral hygiene status prior to therapy, the patient's current oral hygiene status, and your estimation of the patient's motivation to continue oral hygiene procedures after the active phase of therapy is complete.

