Dental Implants: An Introduction

Peri 820

Course Syllabus

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Course Description:

Students
First-year residents:
Graduate Operative, Periodontology, Prosthodontics, Oral
Maxillofacial Surgery,
Residents in Advanced Education in General Dentistry Program

Course
This introductory course in dental implant therapy is designed to
complement previous predoctoral exposure to implant treatment.
It consists of a series of 50 minute lectures supported by projected
material presented by faculty in the departments of
Prosthodontics, Periodontology and Radiology. There are
assignments of multiple journal articles weekly to support the
lecture topics. Laboratories are scheduled to allow demonstration
of both surgical and restorative procedures using the systems
available at UNC. Students are encouraged to attend continuing
education courses on implant therapy presented during the
semester. Attendance will be taken throughout the semester.

Course Objectives

On completion of the course, the student should be able to:
• Define the term: Osseointegration and discuss its
  application to root-form implants.
• Evaluate a patient for potential implant supported
  restorative care
• Develop a plan of care for therapy in the uncomplicated
  implant patient
• Discuss implant placement technique with both the
  Astra Tech and Straumann implant systems
• Discuss restorative options in both the edentulous and
  partially edentulous patient
**Method of Evaluation**

Students are evaluated by their production of an original paper. The subject of this evaluation is selected by the student from a list of topics (see attachment) or may be a selection unique to the student - if approved by the course director prior to the production of the paper.

The Honor Code of the University of North Carolina will govern all student generated work in this course.
Topics for Evaluation Papers

1. Treatment Outcomes:
   a. Restoring single missing teeth with dental implants
   b. Restoring short spans with implants
   c. Restoring long spans (more than 5 units) with implants
   d. Restoring the edentulous maxilla: Overdenture, Fixed Removable
   e. Restoring the edentulous mandible: Overdenture, Fixed Removable
   f. Use of Angled abutments in restorative care

2. Splinting vs. non-splinting of mandibular implants (mandibular flexure)
3. Implant prosthesis accuracy of fit as it relates to success or failure
4. Screw retained vs. cement retained prostheses
5. Implant surface characteristics and their relation to success or failure
6. Inflammation of tissue adjacent to implants and its relation to failure
7. Microbiota of dental implants
8. Implant loss and the etiology
9. Implant prosthesis failure and the etiology
10. The implant/abutment connection: rationale for design and performance
11. Effect of cantilever length on prosthesis failure
12. Implant success in irradiated bone
13. Implant success in subantral augmentation
14. Immediate implant placement into extraction sites
15. Immediate provisionalization vs immediate loading
16. Radiographic evaluation of implants: What is acceptable bone loss?

Other topics may be suitable, please check with Dr. Brodala