103rd Annual Meeting
American Academy of Periodontology

Periodontology Leading
Implant Education Now and in the Future
Disclosures

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• Disclosure: University Research Relationship:
  • Procter and Gamble, Biohorizons, Zimmer Biomet, Straumann, Noveome
Periodontology Leading Implant Education Now and in the Future

Why?
- The Patient!!
- Implant success requires fundamental knowledge
  - Biology
  - Anatomy
  - Wound healing
  - Peri implant pathology
    - Risk assessment
    - Prevention
    - Therapy
    - Maintenance
- We are well positioned to lead the teaching
The UAB didactic implant curriculum

Overall
• Lead by the Prosthodontics division
• Restorative driven
• Lecture in D2, D3 and D4 years
• Pre clinical labs
• Patient care in D3 and D4 years
• Competency in planning and restorative aspects

Preclinical implant dentistry
• Restorative treatment
• Surgical guide fabrication

Lecture topics taught by periodontal faculty
• Treatment planning
• Hard and soft tissues site development
• Prevention, diagnosis and treatment of peri implant diseases
• Peri implant maintenance
The UAB Implant curriculum
The Periodontology objectives

• Excellence in training for the dental students
• Basic anatomy and wound healing
• Implant therapy is prosthetically planned within the biologic framework of the patient
• Treatment is biologically executed
• Implant maintenance
• Diagnosis of peri implant disease
• Team based therapy: Restoring dentist and Periodontists
• Periodontist is the first option
Clinical curriculum

- Diagnostics
- Treatment planning
- Implant system selection
- Referral to and communication with the implant surgeon
- Fabrication of radiographic and surgical guides
- Implant temporization
- Designing implant abutments
- Placement of the final prosthesis
- Implant maintenance and preventing peri-implant diseases
- Diagnosing peri-implant pathology
How does the Periodontist become the first option for implant referral?

**Didactic curriculum**
- First clinical course in Periodontology 1
- Implant dentistry is introduced in this course
- Periodontist teach in D1 and D2 Case based education
  - Treatment planning
- Treatment planning and case discussions in D2 and D3 courses

**Preclinical implant dentistry**
- Restorative treatment
- Surgical guide fabrication
Strong relationship with the prosthodontic and general dentistry faculty.

- The residency programs are intergraded and collaborate extensively
- Pros faculty teach within our clinics
- Perio faculty teaches the implant curriculum in the prosthodontics program
- Interdisciplinary Cases are presented during student courses
- Faculty practice within the UAB dentistry practice as teams
- The team work makes patient care better
- We are their first choice for referral
- The collaboration serves as a role model for residents and students
Implant treatment planning is facilitated by the periodontal faculty

- Diagnostic work up
- Interpretation of the radiographic surveys: CBCT
- Implant site development
- Designing and fabrication the surgical guides
- Strong learning opportunity for the students
Residents Interactions

- Ambassadors for the specialty
- PGY 2 and 3 are clinical faculty in the comprehensive dentistry clinic
- Available for consultations
- Resource for students
  - Facilitate treatment
  - Guide the radiographic and surgical guide fabrication
- Communication about treatment progress
- Every interaction with the students must be a positive learning experience
- The student's therapy is facilitated and enhanced by the resident interactions
Economics of implant dentistry

- Successful implant therapy generates clinic income
- Implant failures are very costly
  - Clinic time
  - Patient time
  - Cost of materials
    - Biologics, bone graft materials, membranes
    - Implants
    - Prosthetics
  - Treatment of implant failures is undercharged
    - Free or at cost for the

Dental School Interest
- Economic interest of the school to minimize failures
- Concentrate implant therapy in clinics with high success rates
UAB Implantology program 2008-2010

Advertisement to the dean
• 12 residents non-surgical background
  – Full and part-time residents
• Increase in implant placement at the school
• Revenue generating clinic
• Patients benefit from therapy

Reality
• Faculty without formal surgical training
• Procedure oriented
• No new patients were seen at the school
• Patients seen were displaced from other clinics
• Complication rate was higher than in other clinics
• Program resulted in a loss of revenue for the school
Challenges

Distribution of Implant cases
• Dental implant treatment planning is prosthetically driven
• Treatment is biologically executed
• Availability of consultations
• Presence in the student clinics
• Divide cases based on random criteria

We do not have implant cases!!!
• We have patients
• Never identify a patient by the procedure
• Patient prefer care based on success criteria
Greetings from Alabama
Greetings from UAB