

University of Arkansas - Fort Smith
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General Syllabus

DHYG 43101 Periodontology II

Credit Hours: 1

Lecture Hours: 1

Laboratory Hours: 0

Prerequisites: DHYG 31103 Clinic I Theory, DHYG 32102 Periodontology I, DHYG 32133 Dental Hygiene Clinic I, DHYG 34403 Pharmacology, and DHYG 34503 General and Oral Pathology

Corequisites: DHYG 41202 Clinic II Theory, DHYG 42204 Dental Hygiene Clinic II, DHYG 41402 Advanced Dental Hygiene Theory for Special Needs Patients, DHYG 43702 Dental Nutrition, DHYG 44603 Dental Materials, and DHYG 45102 Local Anesthesia and Nitrous Oxide

Effective Catalog: 2018-2019

I. Course Information

A. Catalog Description

Continuation of DHYG 32102, including the clinical procedures associated with the surgical phase of periodontal therapy, as well as the use of adjunctive chemotherapeutic treatments. Emphasis on the evaluation of periodontal treatment as well as the maintenance phase and the relationship between periodontics and other dentistry disciplines.

B. Additional Information-None

II. Student Learning Outcomes

A. Subject Matter

Upon completion of this course, the student will:

1. Discuss the role of the dental hygienist as it relates to the process of care for the periodontally involved patient.
2. Describe the components of a periodontal assessment, recognizing the significance and clinical indications for surgical and maintenance therapies.
3. State the role of systemic antibiotic treatment, locally delivered controlled-release antibiotic treatment and enzyme suppression treatment in periodontitis.
4. List the objectives for periodontal surgery.

5. Organize the clinical conditions that are most likely to benefit from periodontal surgery.
6. List and define the types of periodontal surgery.
7. Define non-surgical periodontal therapy and design a personalized maintenance program for various types of periodontal patients, including patients with implants.
8. Explain relative contraindications for periodontal surgery.
9. Define the terms repair, reattachment, new attachment, guided tissue regeneration, guided bone regenerations, coronal positioning, LANAP, new attachment and regeneration.
10. Recognize special considerations for the dental hygienist following various types of periodontal surgery.
11. Explain the critical importance of periodontal maintenance and the determinants of a successful maintenance program by utilizing a problem-based approach to treatment planning and practicing clinical decision making associated with periodontal co-therapy.
12. Explain when more aggressive forms of therapy are needed and the appropriate times for referral to a periodontist using AAP referral guidelines.
13. Describe the types of dental implants used in dentistry and explain the role of these prosthetic devices in the attainment of periodontal health and function.
14. Recognize and understand the perio/systemic link and the effectiveness of periodontal therapy in the prevention of disease, disease progression, and tooth loss.
15. Understand the indications and contraindications for the use of adjunctive chemotherapeutic agents in the management and treatment of periodontal diseases.
16. Recognize and understand the progression and management of periodontal disease in patients infected with HIV.
17. Define the role of the dental hygienist in the recognition and treatment of periodontal emergencies as well as identifying techniques which minimize the possibilities for litigation in the treatment and management of periodontal patients.
18. Differentiate the periodontal abscess from the endodontic abscess based on the following characteristics: pocket depth, type of pain, tooth vitality, and the radiographic image.
19. Demonstrate the ability to facilitate patient treatment by incorporating knowledge and treatment recommendations into an educational patient pamphlet for use in clinical setting.
20. Discuss the use of lasers in the dental and dental hygiene treatment of periodontal disease.

Refer to *Graduate Competencies* in the Policy and Procedures Manual. These objectives increase knowledge in competencies listed above.

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Analytical Skills

Critical Thinking Skills: Students will participate in a class learning activity they will use a Think-Pair- Share method to describe how dental lasers can and cannot be used by dentists and hygienists for various types of periodontal therapy.

Communication Skills (written and oral)

Students will demonstrate communication skills by writing a research paper on a given periodontal topic using peer-reviewed articles to substantiate the current standard of care for periodontally involved patients.

Ethical Decision Making

Students will recognize and analyze ethical dilemmas in an in-class discussion related to differences in use of lasers in dentistry and dental hygiene.

III. Major Course Topics

- A. Dental hygiene process of care for the periodontal patient
- B. Surgical modalities
- C. Advances in monitoring and detecting periodontal disease – DNA probe
- D. Literature search
- E. Oral hygiene self-care
- F. Topical drug delivery systems: Nystatin, steroids, elixir of Benadryl and Kaopectate
- G. Systemic and local drug delivery – Arestin, Periostat, PerioChip, CHX, mouthwash, Perio Science
- H. Non-surgical periodontal therapy and healing
- I. Principles of periodontal surgery
- J. Implants – surgical phase
- K. Laser surgery for DDS and disinfection for RDH, biostimulation