

DENT-2321: PERIODONTICS II

Cuyahoga Community College

Viewing: DENT-2321 : Periodontics II

Board of Trustees:

MARCH 2024

Academic Term:

Fall 2024

Subject Code

DENT - Dental Hygiene

Course Number:

2321

Title:

Periodontics II

Catalog Description:

Study of advanced non-surgical and surgical treatment modalities and treatment planning for periodontal diseases. Additionally, presentation on dental implants, occlusal effects on the periodontium, periodontal emergencies and the human immunodeficiency virus and its clinical manifestations.

Credit Hour(s):

1

Lecture Hour(s):

1

Requisites

Prerequisite and Corequisite

DENT-1420 Periodontics I, and BIO-2500 Microbiology, or departmental approval.

Outcomes

Course Outcome(s):

Design, implement and present a treatment plan for periodontally involved patients.

Essential Learning Outcome Mapping:

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

Objective(s):

1. List and assess the elements of the initial periodontal exam and the periodontal maintenance appointment.
2. Describe the periodontal disease process to a patient, in verbal and written form.

Course Outcome(s):

Discuss root instrumentation incorporating knowledge of root morphology.

Objective(s):

1. Explain the differences and similarities between root debridement and calculus removal instrumentation.
2. Identify root anatomy and how it impacts periodontal assessment, furcation accessibility & advanced root instrumentation.

Course Outcome(s):

Assess a patient's periodontal condition to ascertain possible periodontal surgery options.

Essential Learning Outcome Mapping:

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

Objective(s):

1. Identify the role of the hygienist in surgical treatment and subsequent maintenance for surgical patients.
2. List and define various types of periodontal surgeries.
3. Describe the advantages and disadvantages, indications and contraindications of each surgery discussed.
4. Recognize violation/invasion of biologic width.

Course Outcome(s):

Recommend dental implants to appropriate candidates.

Objective(s):

1. Describe the various types and components of implants.
2. Summarize the surgical procedures related to implants.
3. Describe the criteria for success of implants.
4. Describe the hygienist's and the patient's role in the maintenance of implants.

Course Outcome(s):

Determine the presence of an abscess by clinical and/or radiographic manifestations.

Objective(s):

1. Compare and contrast the signs, symptoms, etiology and treatment of gingival, periodontal and periapical abscesses.
2. Define a combined periodontic-endodontic lesion and discuss its theories of etiology, signs, symptoms and treatment protocol.
3. Recognize a pericoronal abscess and describe its signs, symptoms, etiology and treatment protocol.

Course Outcome(s):

Determine the presence of occlusal trauma and its possible effect on the periodontium.

Objective(s):

1. Differentiate between primary and secondary occlusal trauma.
2. Discuss possible treatment modalities for occlusal trauma.
3. Explain occlusal trauma's relationship to periodontal disease.

Course Outcome(s):

Assess the oral manifestations associated with Human Immunodeficiency Virus (HIV) related conditions.

Objective(s):

1. Discuss the implications of HIV to periodontal tissues and the oral mucosa.
2. List the five etiological categories associated with HIV oral manifestations.
3. Identify the CD4 T-lymphocyte count and relate to the stage of disease and to treatment protocol.

Methods of Evaluation:

1. Test
2. Midterm comprehensive examination
3. Final comprehensive examination
4. Periodontal surgery observation (online) & written summary
5. Patient education brochure on periodontal disease
6. Textbook chapter questions and answers
7. Online P & G implant continuing education course & test

Course Content Outline:

1. Therapy for the periodontally involved patient
 - a. Root morphology and root debridement
 - b. Periodontal treatment planning, prevention, evaluation, maintenance, and risk assessment
2. Dental implants
 - a. Types
 - b. Surgical procedure
 - c. Professional and patient maintenance
3. Periodontal surgical therapy
 - a. Types
 - b. Indications and contraindications of each type
 - c. Biologic width & the violation of biologic width
 - d. Periodontal healing post-surgical procedures
4. HIV: effects and oral manifestations
 - a. Oral conditions associated with HIV
 - b. Treatment of these conditions
5. Abscesses of the periodontium
 - a. Differentiation of the various types
 - b. Treatment modalities
6. Occlusal trauma
 - a. Causes and treatment
 - b. Clinical and radiographic manifestations
 - c. Signs and symptoms

Resources

Gehrig, J.S., Willmann, D. E. (2023) *Foundations of Periodontics for the Dental Hygienist*, Philadelphia, PA: Wolters Kluwer.

Gehrig, J.S., Sroda, R., & Saccuzzo, D. (2019) *Fundamentals of Periodontal Instrumentation and Advanced Root Instrumentation*, Philadelphia PA: Wolters Kluwer.

Genco, Robert J., Williams, Ray C. (2014) *Periodontal Disease and Overall Health: A Clinician's Guide*, Colgate-Palmolive Company.

Perry, Dorothy, Beemsterboer, Phyllis. (2014) *Periodontology for the Dental Hygienist*, Philadelphia PA:Saunders Elsevier.

Boyd, L.D., Mallonee, L. F., Wyche, C. J. (2021) *Wilkins' Clinical Practice of the Dental Hygienist*, Philadelphia: Jones and Bartlett Learning.

Resources Other

1. www.perio.org: American Academy of Periodontology
2. <http://libguides.tri-c.edu/dental>: Dental Hygiene related web site addresses - dedicated page
3. www.adha.org: American Association of Dental Hygienists
4. www.nidr.nih.gov: National Institute of Dental Research
5. <http://owl.english.purdue.edu/owl/resource/589/1/>: Purdue Online Writing Lab
6. <http://owl.english.purdue.edu/owl/section/2/10/>: Purdue APA information
7. www.cochrane.org: Systematic review of dental related research
8. www.ohiolink.edu: OhioLINK Central Library catalog
9. www.perioeducation.com: Research articles, videos etc. on periodontal issues
10. <http://scholar.google.com>: Broad search engine for scholarly literature
11. www.pubmed.com: National Library of Medicine
12. www.dentalcare.com: Crest Dental ResourceNet

13. www.dimensionsofdentalhygiene.com: Dimensions of Dental Hygiene publication
14. www.aaosh.org: American Academy for Oral Systemic Health

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