

DENT-2400: PREVENTIVE ORAL HEALTH SERVICES IV

Cuyahoga Community College

Viewing: DENT-2400 : Preventive Oral Health Services IV

Board of Trustees:

December 2021

Academic Term:

Fall 2022

Subject Code

DENT - Dental Hygiene

Course Number:

2400

Title:

Preventive Oral Health Services IV

Catalog Description:

Continuation of clinical experience integrating social and basic sciences within the scope of dental hygiene practice. Emphasis on professionalism, time management, and advanced dental hygiene techniques. Incorporation of dietary analysis procedures. Preparation for board examinations for dental hygiene licensure.

Credit Hour(s):

5

Lecture Hour(s):

1

Lab Hour(s):

0

Other Hour(s):

12

Other Hour Details:

Clinical Lab Hours: 12 hours per week in the Dental Hygiene Clinic

Requisites

Prerequisite and Corequisite

DENT-2300 Preventive Oral Health Services III, and DIET-1220 Nutrition for Dental Hygiene.

Outcomes

Course Outcome(s):

Initiate emergency medical protocol for all possible emergency situations.

Objective(s):

1. Review management of medical emergencies that can occur in a dental office.
2. Identify the location in the Dental Hygiene Clinic of the emergency medical equipment and first aid kit.
3. Explain the correct operation of the oxygen tank.
4. Complete a Huddle Sheet entry for each patient including identification of medical concerns, medications and required treatment modifications.

Course Outcome(s):

Provide comprehensive dental hygiene treatment for all patients.

Objective(s):

1. Complete the Assessment, Diagnosis, Planning, Implementation, Evaluation and Documentation (ADPIED) of client treatment. Emphasis is on the legal, medical and dental aspects of client data gathering, treatment and recording.
2. Develop a Dental Hygiene Care Plan for each patient treated based on the patient's individual needs.
3. Complete all categories of the Daily Performance Form at or greater than minimum competency levels.
4. Modify patient treatment, as needed, during the evaluation phases of treatment including subsequent appointments and Tissue Evaluation appointments.
5. Based on the data gathered during the assessment phase of treatment, identify the need for an impression and pour the impression for one patient following the guidelines provided in DENT 1410, Current Concepts in Dental Materials.
6. Develop and discuss individualized self-care plans, including the incorporation of a variety of physiotherapy aids, based on the patients' oral hygiene assessments.
7. Identify one patient appropriate for the Periodontal Screening and Recording (PSR) periodontal evaluation system and complete the screening.
8. Apply pit and fissure sealants to teeth according to the guidelines presented in DENT 1410-Current Concepts in Dental Materials and the course syllabus.
9. Demonstrate advanced instrumentation techniques including advanced fulcrums, ultrasonic instrumentation and use of periodontal instruments, when appropriate.
10. Expose complete mouth series, bitewing series and panoramic radiographic images at or greater than the minimum competency level.
11. Complete mounting competencies within 8 minutes at 100% competency level.
12. Evaluate previous patient education and treatment provided to a patient during subsequent and Tissue Evaluation appointments.
13. Provide comprehensive care for a pediatric patient at or greater than the minimum competency level.
14. Assist first-year students during the Second-Year-in-First-Year-Clinic Experience. Second-year students will assist first-year students during treatment procedures identified in the syllabus.
15. Document patient treatment and interpersonal communication between all members of the dental team and patients in a Services, Assessment, Recommendation and Plan (SARP) format.
16. Request completion of one Patient Satisfaction Survey.

Course Outcome(s):

Reduce the overall time required to complete patient treatment.

Objective(s):

1. Complete the First-Year Treatment Experience with a student partner or clinic patient for all sections of the Dental Hygiene Process of Care Form.
2. Demonstrate the use of efficient, time-management techniques by successfully completing 12 patients.
3. Complete the Time Management category of the Daily Performance Form at or greater than the minimum competency level.
4. Complete one patient during the Private Practice Simulation.

Course Outcome(s):

Attempt successful completion of Dental Hygiene licensure examinations.

Objective(s):

1. Discuss the format and required preparation for completion of the Commission on Dental Competency Assessments/American Board of Dental Examiners (CDCA/ADEX) Clinical and Computer-Simulated Examinations and the National Board Dental Hygiene licensing examination.
2. Attempt the successful completion of the Tri-C Written Dental Hygiene Competency Examination.
3. Attempt successful completion of a slide examination in preparation for the CDCA/ADEX Computer-Simulated Examination and the National Board Dental Hygiene Examination.
4. Attempt the successful completion of an examination on the CDCA/ADEX Manual.
5. Complete the Professional Development and Environmental Management categories of the Daily Performance Form at or greater than the minimum competency level.
6. Complete the Mock Clinical CDCA/ADEX Scale/Polish Competency at or greater than the minimum competency level.
7. Complete patients with a calculus value of three and greater.
8. Complete four debridement requirements at or greater than the minimum competency level for both the Detection (first check) and Removal (second check) evaluations.
9. Complete one pharmacology consultation with the supervising dentist.
10. Complete one imaging consultation with the supervising dentist.
11. Complete one group imaging interpretation session with the clinic coordinator.

12. Complete one, group Occupational Health and Safety Administration/Centers for Disease Control interpretation session with the clinic coordinator.
13. Identify patients for administration of local anesthesia according to the instruction provided in DENT 2200-Local Anesthesia and Pain Management.
14. Complete the manual debridement of one patient without the use of ultrasonic equipment.
15. Complete one calculus quadrant detection on a patient with at least one incisor, one canine, one premolar and two molars in the chosen quadrant.
16. Select two anterior and two posterior teeth, each with at least one subgingival, board-worthy piece of calculus, to complete the calculus detection and removal observation.
17. Complete mounting competencies within 8 minutes at 100% competency level.
18. Select an appropriate patient, without assistance from faculty, and provide treatment for the patient during the CDCA/ADEX patient treatment clinical examination according to the specifications provided in the most current CDCA/ADEX Manual.

Course Outcome(s):

Provide dietary counseling to at-risk patients.

Objective(s):

1. Review of basic nutrients related to oral health.
2. Review periodontal disease and caries risk assessments to identify patients requiring dietary analysis.
3. Collect and analyze nutritional information from a patient's 24-hour dietary recall.
4. Develop and discuss a personalized diet prescription for one patient.

Course Outcome(s):

Discuss treatment procedures available in a dental specialty practice.

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. Choose a video explaining a treatment procedure completed in an Oral Surgery, Orthodontic, Prosthodontic/General Dentistry specialty practice or dental laboratory facility.
2. Write a paper discussing the treatment procedure explained in the chosen video.

Methods of Evaluation:

1. Examinations
2. Quizzes
3. Dietary Analysis Requirement
4. Specialty Practice Assignment and paper
5. Clinical requirements

Course Content Outline:

1. Comprehensive, Preventive Oral Health Care
 - a. Clinical requirements
 - i. Self-care
 - ii. Evaluation appointments
 - iii. Calculus Detection and Removal Observation
 - iv. Care levels
 - v. Calculus values
 - vi. Imaging requirements
 - vii. Impression and pour of model
 - viii. Periodontal Screening and Recording
 - ix. Pit and fissure sealants
 - x. Mounting competencies
 - xi. Pediatric patient requirement
 - xii. Second-Year Assignment in First-Year Clinic

- b. Assessment, Diagnosis, Planning, Implementation, Evaluation, Documentation (ADPIED)
- c. Advanced fulcrums
- d. Ultrasonic instrumentation
- e. Files and other periodontal instruments
- f. Dental Hygiene Care Plan
- g. Daily Performance evaluation
- h. Documentation
 - i. Patient Satisfaction Survey
- 2. Time Management
 - a. First-Year Treatment Experience
 - b. Completed patients
 - c. Time Management evaluation
 - d. Private Practice Simulation
- 3. Emergency Medicine
 - a. Equipment and location
 - b. Medical emergency quiz
 - c. Huddle expectations
- 4. Licensure Examinations
 - a. Commission on Dental Competency Assessments/American Board of Dental Examiners (CDCA/ADEX)
 - b. National Board Dental Hygiene Examination
 - c. Tri-C Written Dental Hygiene Competency Examination
 - d. Mock Clinical CDCA/ADEX Scale/Polish Competency
 - e. Calculus values of three to six
 - f. Calculus Quadrant Detection
 - g. Calculus Detection and Removal Observation
 - h. Debridement requirements
 - i. Manual debridement
 - j. Imaging Consultation requirement
 - k. Imaging interpretation session
 - l. Occupational Safety & Health Administration/Centers for Disease Control interpretation
 - m. Local anesthesia administration
 - n. Pharmacology Consultation
- 5. Dietary Analysis
 - a. Nutrients review
 - b. Risk assessments
 - c. Dietary Analysis requirement
- 6. Specialty Practice
 - a. Video selection
 - b. Paper

Resources

Blue, C. M. *Darby's Comprehensive Review of Dental Hygiene*. 9th ed. Philadelphia: Elsevier, 2022.

Boyd, L.D.; Mallonee, L. F.; Wyche, C. J.; Halaris, J. F. *Clinical Practice of the Dental Hygienist*. 13th ed. Philadelphia: Wolters Kluwer/Lippincott, Williams & Wilkins, 2020.

Cuyahoga Community College. *Dental Hygiene Clinical Manual*. Current Edition. Cleveland, CCC, 2022.

Gehrig, J. *Fundamentals of Periodontal Instrumentation and Advanced Root Instrumentation*. 8th ed. Philadelphia: Lippincott, Williams & Wilkins, 2019.

Grimes, E. *Medical Emergencies: Essentials for the Dental Professional*. 2nd ed. Mosby-Elsevier, 2014.

Iannucci, J. I, Howerton, L. *Dental Radiography Principles and Techniques*. 5th ed. St. Louis: Elsevier Sanders, 2017.

Langlais, R., Miller, C., Gehrig, J. *Color Atlas of Common Oral Diseases*. 5th ed. Jones & Bartlett Learning, 2017.

Malamed, S. *Handbook of Local Anesthesia*. 7th ed. St. Louis: Elsevier, 2020.

Palmer, C. & Boyd, L. *Diet and Nutrition in Oral Health*. 3rd ed. Pearson Education, 2017.

Stegeman, C. & Davis, J. *The Dental Hygienist's Guide to Nutritional Care*. 5th ed. Elsevier, 2019.

Resources Other

Tri-C Written Dental Hygiene Competency Examination

Commission on Dental Competency Assessments Mock Slide Examination

Commission on Dental Competency Assessment/American Board of Dental Examiners Manual (Most current edition)

National Board Dental Hygiene Examination Manual (Most current edition)

iProfile (Dietary Analysis program)

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