

DNH 143

Dental Hygiene III

COURSE OUTLINE

Prerequisites:

Successful completion two semesters of the dental hygiene curriculum.

Course Description:

Introduces dental health care for clients with special needs. Includes introduction to computer concepts and applications. Provides supervised clinical practice in the dental hygiene clinic with emphasis on refining client treatment and instrumentation skills, including oral radiographs.

Course Objectives:

Through faculty presentations, class discussion, online interaction, case studies and completed assignments, the student will be able to:

- Discuss the 1) etiology, 2) plan and 3) document modifications necessary for dental hygiene care and effective oral hygiene instruction for persons with physical disabilities, sensory deficits, developmental or behavioral disorders, psychiatric disorders, substance related disorders, for the very young (pediatric), the elderly, the homebound and the edentulous patient.

Competencies and Learning Outcomes for the Dental Hygiene Graduate:

DNH 143 exposes students to a wide variety of information that will enable students to reach the following competencies expected of new graduates:

DOMAIN: ETHICAL VALUES & PROFESSIONALISM - 1,2, 3 & 4

DOMAIN: PROFESSIONAL COMMITMENT AND DEVELOPMENT - 2

DOMAIN: DENTAL HYGIENE PROCESS OF CARE - 1, 2, 3, 4 & 5

Semester Credits: 3 Lecture Hours: 3

DNH 143
Dental Hygiene III

Textbook:

In the Eye of the Hurricane: Finding Peace within the Storm of Autism. J. C. Liske.
Spiritbuilding Publishing, Inc., Summerville, IN. 2006

Clinical Practice of the Dental Hygienist, Eleventh Ed. Wilkins, EM. Lippincott Williams &
Wilkins, Philadelphia, PA. 2013.

Useful web sites:

American Academy of Periodontology	www.perio.org
American Dental Hygienists' Association	www.adha.org
American Dental Association	www.ada.org
National Institute of Dental Research	www.nidr.nih.gov
Proctor & Gamble Dental ResourceNet	www.dentalcare.com

Module 1-The Pregnant Patient; The Patient With an Endocrine Disorder or Hormonal Change

Learning Objectives:

- **Identify and define key terms and concepts related to the pregnant patient.**
 - **Identify the oral/facial development timetable in relationship to overall fetal development.**
 - **Describe oral findings common in pregnancy.**
 - **Plan and document dental hygiene care that addresses the unique physical, oral, and emotional considerations of the pregnant patient.**
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- A. Sources for Patients
- B. Fetal Development
- C. Oral Findings During Pregnancy
- D. Aspects of Patient Care
- E. Patient Instruction
- F. Special Problems for Referrals
- G. Documentation

Learning Objectives:

- **Identify and define key terms and concepts related to hormonal function and hormone disorders.**
 - **Identify the major endocrine glands and describe the function of each.**
 - **Identify and describe physical, mental, emotional, and oral health factors commonly associated with adolescence and puberty.**
 - **Identify and describe physical, mental, emotional, and oral health factors commonly associated with menses and menopause.**
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- A. Overview of the Endocrine System
- B. Adolescence and Puberty
- C. Oral Conditions
- D. Dental Hygiene Care
- E. Menstruation
- C. Hormonal Contraceptives
- D. Menopause
- E. Documentation

Module 2-The Patient with a Cleft Lip and/or Palate

Learning Objectives

- Identify and define key terms and concepts related to oral/facial clefts
 - Identify prenatal risk factors and developmental time frame for oral/facial clefts
 - Describe treatment for oral/facial clefts
 - Use knowledge of the oral, physical, and personal characteristics of the patient to plan and document dental hygiene care and oral hygiene instructions
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- A. Classifications of Clefts
- B. Etiology
- C. Oral Characteristics
- D. General Physical Characteristics
- E. Treatment
- F. Dental Hygiene Care
- G. Documentation

Module 3-Pediatric Oral Health Care Infancy through Age 5; The Older Adult Patient: The Edentulous Patient

Learning Objectives

- Identify risk factors for oral disease in children
 - Discuss the role of the dental hygienist in providing early oral care intervention
 - Discuss anticipatory guidance for parents of infants and toddlers
 - Explain tooth development and eruption patterns
 - Use knowledge of specific oral health issues, child management techniques, caries management by risk assessment and clinical procedures to plan dental hygiene care and oral health education for infants/toddlers and their parents
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- A. Access to Parents, Infants, and Young Children
- B. Treatment Planning and Consent
- C. Dental Hygiene Care
- D. Oral Health Considerations for Infants
- E. Oral Health Considerations for Toddlers and Preschoolers
- F. Documentation

Learning Objectives

- Identify physical, general health, and oral health changes that are characteristic of aging
- Describe the effects of osteoporosis and Alzheimer's disease on oral health status
- Plan and document dental hygiene interventions and health education approaches that enhance the oral health of the elderly patient

- **Prepare materials necessary for visiting a homebound patient**
 - **Plan and document adaptations to dental hygiene care plans and oral hygiene instructions for the homebound patient.**
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- A. Aging
- B. Physiologic Aging
- C. Pathology and Disease
 - a. Osteoporosis
 - b. Alzheimer's Disease
 - c. Sexually Transmitted Disease
- D. Oral Findings
- E. Dental Hygiene Care
 - a. Dental Biofilm Control
 - b. Periodontal Care
 - c. Dental Caries Control
- F. Diet and Nutrition
- G. Documentation

Learning Objectives

- **Identify potential adverse effects of dental prostheses on oral tissues**
 - **Plan and document dental hygiene interventions that address patient needs before and after insertion of a denture**
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- A. Purposes for Wearing Dentures
- B. Types of Removable Complete Denture
- C. The Edentulous Mouth
- D. The Patient with New Dentures
- E. Denture-Related Oral Changes
- F. Denture Induced Oral Lesions
- G. Prevention
- H. Maintenance
- I. Denture Marking for Identification
- J. Documentation

Module 4- The Patient with a Disability; The Patient that is Homebound; The Patient with a Sensory Impairment

Learning Objectives

- **Identify oral conditions caused by or resulting from disabling conditions**
 - **Describe procedures and factors that contribute to safe and successful dental hygiene treatment for individuals with disabilities**
 - **Describe factors that enhance the prevention of oral disease for individuals with disabilities and their caregivers**
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- A. Definition
- B. Oral Manifestations
- C. Dental Hygiene Care
- D. Appointment scheduling
- E. Barrier Free Environment
- F. Wheel chair transfers
- G. Assistance for the Ambulatory Patient
- H. Patient Positioning and Stabilization
- I. Instrumentation
- J. Four-handed Dental Hygiene
- K. Disease Prevention and Control
- L. Dental Plaque Removal
- M. Self-care Aids
- N. Fluorides
- O. Pit and Fissure Sealants
- P. Diet Instruction
- Q. Care giver Instructions
- R. Documentation

Learning Objectives

- **Prepare materials necessary for visiting a homebound patient**
 - **Plan and document adaptations to dental hygiene care plans and oral hygiene instructions for the homebound patient.**
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- A. Homebound Patients
- B. Dental hygiene care and Instruction
- C. The unconscious patient
- D. The Terminally Ill Patient
- E. Documentation

Learning Objectives:

- **Identify and define key terms and concepts related to sensory impairment.**
 - **Describe the causes of sensory impairments**
 - **Identify factors that affect interpersonal communication and patient education.**
 - **Plan and document adaptations that enhance dental hygiene care for a patient with a sensory impairment**
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- A. American Disabilities Act
- B. Visual Impairment
- C. Hearing Impairment
- D. Documentation

Module 5- The Patient with a Physical Impairment; The Patient with a Developmental or Behavior Disorder

Learning Objectives

- Describe the characteristics, complications, occurrence, and medical treatment of a variety of physical impairments
 - Identify oral factors and findings related to physical impairments
 - Plan and document modifications for dental hygiene care based on assessment of needs that are specific to a patient's physical impairment
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- A. Neurological and Other Disorders associated with Physical Disability
 - a. Spinal Cord Injury
 - b. Cerebrovascular Accident
 - c. Bell's Palsy
 - d. Multiple Sclerosis
 - e. Amyotrophic Lateral Sclerosis
 - f. Parkinsons Disease
 - g. Myasthenia Gravis
 - h. Post Polio Syndrome
 - i. Cerebral Palsy
 - j. Muscular Dystrophies
 - k. Myelomeningocele
 - l. Arthritis
 - m. Scleroderma
- B. Considerations for Dental Hygiene Care
- C. Documentation

Learning Objectives

- Identify the dimensions, intellectual functioning levels, risk factors, and etiologies associated with developmental disorders
 - Describe the specific characteristics of individuals with an intellectual disability, Down syndrome, and autistic spectrum disorders
 - Plan and document modifications necessary for dental hygiene care and effective oral hygiene instruction for persons with developmental or behavioral disorders
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- A. Autism Spectrum Disorder
- B. Downs Syndrome
- C. Intellectual Disorder
- D. Dental Hygiene Care
- E. Documentation

Module 6- The Patient with a Substance Related Disorder; The Patient Who Uses Tobacco

Learning Objectives

- **Identify physical and behavioral factors associated with alcohol and drug use**
 - **Describe health-related effects of alcohol and drug use, abuse, and withdrawal**
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- A. Alcohol Related Disorders
 - a. Metabolism of alcohol
 - b. Health Hazards
 - c. Fetal Alcohol Syndrome
 - d. Alcohol Withdrawal
 - e. Treatments for Alcoholism
- B. Prescription and Street Drugs
 - a. Most Common Drugs of Abuse
 - b. Medical Effects of Drug Abuse
 - c. Treatment Methods
- C. Dental Hygiene Process of Care
- D. Risk Management
- E. Documentation

Learning objectives

- **Identify and define key terms and concepts related to the use of tobacco.**
 - **Explain the systemic and oral effects of tobacco use**
 - **Describe the effects of nicotine addiction**
 - **Describe strategies for tobacco cessation**
 - **Plan dental hygiene care and tobacco cessation interventions for patients who use tobacco**
 - **Identify the role of the community-based dental hygienist in tobacco-free initiatives**
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- A. Health Hazards
- B. Components of Tobacco Products
- C. Metabolism of Nicotine
- D. Systemic effects
- E. Environmental Tobacco Smoke (ETS)
- F. Prenatal and Children
- G. Oral manifestations
- H. Tobacco and Periodontal Infections
- I. Nicotine Addiction
- J. Treatment
- K. Pharmacotherapies

- L. Nicotine-Free Therapy
- M. Dental Hygiene Care for the Patient who uses Tobacco
- N. Assessment
- O. Clinical Treatment Procedures
- P. Tobacco Cessation Program
- Q. Motivational Interviewing
- R. The 5 "A's"
- S. The team Approach
- T. Advocacy
- U. Documentation

Module 7- The Patient with a Psychiatric Disorder

Learning Objectives

- **Describe the symptoms, treatment, and oral implications of a variety of psychiatric and mood disorders**
 - **Plan and document dental hygiene care and oral health education for a patient with a psychiatric disorder**
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- A. Schizophrenia
- B. Mood disorders
- C. Major depressive disorder
- D. Bipolar disorder
- E. Postpartum mood disorders
- F. Anxiety disorder
- G. Eating disorder
- H. Anorexia Nervosa
- I. Bulimia Nervosa
- J. Psychiatric emergencies
- K. Documentation