

Naval Postgraduate Dental School Correspondence Course Program

January 2020

Courses Available

Endodontics
Fixed Prosthodontics
Medical Emergencies in the Dental Office
Occlusion
Operative Dentistry
Oral Pathology
Oral Surgery
Orofacial Pain
Orthodontics
Pediatric Dentistry
Periodontics
Sleep Medicine for Dentists

Videotape Series

Keys to Success: Guided Tissue Regeneration
Nitrous Oxide Equipment and Techniques: a Refresher
Principles and Techniques of Biopsies of the Oral Cavity
Sleep Apnea Management by Mandibular Advancement Device

ENROLLMENT PROCEDURES

The U.S. Navy Dental Corps sponsors a series of free correspondence courses that are developed and administered by the Naval Postgraduate Dental School. Dental officers on active duty with the US Armed Forces, with other Federal agencies, or with the armed forces of other nations are eligible to enroll in these courses. Dental officers of the Reserve component of the US Armed Forces and those who have retired may also enroll.

An application form is included in the back of this brochure. Please feel free to copy it. To enroll in a course please follow the instructions on the application.

Sometimes, we have to establish waiting lists for courses because of shortages of course materials. For this reason, we suggest that you indicate a second choice on the application unless you are interested in a specific course. You can avoid being put on a waiting list if you already have the textbook for the course. If you do have the textbook, indicate this fact on the application. **Note: The student is responsible for the cost of returning loaned materials.**

COMPLETION OF COURSES

The textbook based courses are available online. When you submit an application please be sure to include your email address. We will send you a User ID and password by email. We will also send you a textbook by regular mail if you do not have your own. The format for our courses is text- based. You

will read a textbook and answer questions. You will enter your answers to an online quiz. You will be able to get immediate feedback after completing an assignment (quiz).

You are expected to complete at least one assignment (quiz) each month. The supply of texts and other materials for some correspondence courses is limited, and prospective enrollees must sometimes wait until other students have returned study materials before they can be enrolled in the courses they have requested. To reduce waiting time to a minimum, it is essential that assignments (quizzes) be completed promptly and that materials are returned without delay. If circumstances such as illness or change of duty station make it difficult for you to submit a particular assignment on time, contact us by telephone at DSN 285-4832 or commercial (301) 319-4832. If you find you must withdraw from a course, all materials must be returned, but there is no penalty for withdrawal and you may re-enroll at any time.

The passing grade for all courses is 80%. A letter of satisfactory completion will not be authorized if the average grade for a completed course falls below this standard. Assignments that fall below the minimum standard may be retaken in an effort to raise the grade to a satisfactory level.

Letters of satisfactory completion are mailed to students who successfully complete any of the correspondence courses. Before a letter of completion is issued, however, all course materials must be returned.

NAVAL RESERVE RETIREMENT CREDIT

Retirement points may be credited for the completion of CDE credits at the rate of one retirement point for every four hours of CDE completed. Only personnel eligible to receive retirement points under current directives governing the retirement of Naval Reserve personnel should apply. Navy Personnel Command (PERS-912), 5720 Integrity Drive, Millington, TN, 38055 maintains records of training and retirement point credits for each Naval Reserve officer. Accordingly, when a Naval Reserve officer successfully completes any CDE, the officer should forward a copy of the letter of satisfactory completion to PERS-912 to be evaluated for the award of retirement points.

CONTINUING EDUCATION CREDITS



The US Navy Dental Corps is an ADA CERP Recognized Provider.

ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.

The US Navy Dental Corps is not an Academy of General Dentistry (AGD) PACE approved provider, and no longer submits completion documents to the AGD. AGD members may use Provider ID# 216209 to submit this completion document online to the AGD for Fellowship, Mastership, and membership maintenance credit.

COURSES AVAILABLE

Endodontics (NAVEDTRA 13151-D) Original Release 2018/Expires 2021

Course Editor: Commander Andrea Lisell, DC, USN; DMD, NOVA Southeastern University; MS, Uniformed Services University of the Health Sciences; Certificate in Endodontics, Naval Postgraduate Dental School; Diplomate, American Board of Endodontics. Commander Lisell has no relevant financial relationships to disclose

9 Assignments. The US Navy Dental Corps designates this activity for 48 continuing education credits.

Unit 1: Assignments 1-4. The US Navy Dental Corps designates this activity for 20 continuing education credits.

Unit 2: Assignments 5-9. The US Navy Dental Corps designates this activity for 28 continuing education credits.

Text: Pathways of the Pulp, ed. 11, edited by Kenneth M. Hargreaves and Louis Berman. Elsevier, St. Louis, 2016.

There has been an enormous amount of research conducted in the past 10 years advocating new techniques in this field. It is difficult for the general dentist to keep up-to-date by reading the literature in every specialty. Therefore, the goal of this course is to help the general dentist remain current in the field of endodontics by presenting information on the latest and proven techniques.

Upon completion of this course, you should be able to:

- explain the inflammatory process as it relates to the dental pulp and periradicular tissues analyze information obtained from the history, clinical examination, diagnostic tests, and radiographic examination, and arrive at a clinical diagnosis of pulpal and periradicular pathoses and the appropriate treatment plan
- design access preparations and discuss canal morphology for all teeth
- identify various instruments in the endodontic armamentarium and explain sterilization procedures describe methods of canal cleaning and shaping
- explain the different methods of obturating the root canal system
- devise treatment plans for various types of endodontic pulpotomy, apexification, and apexogenesis identify types of resorption and recommend methods of treatment
- describe the techniques and sequence of procedures used in endodontic surgery plan the appropriate bleaching procedure for different types of discolored teeth discuss factors that affect success and failure of endodontic therapy
- discuss the importance of maintaining good patient records from a legal standpoint discuss the basic legal responsibilities of the doctor/patient relationship

Fixed Prosthodontics (NAVEDTRA 13106-B) Original Release 2012/Reviewed 2018/Expires 2021

Course Editor: Captain Christopher M. Hamlin, DC, USN; DMD, Boston University Goldman School of Dental Medicine; MS, George Washington University; Certificate in Prosthodontics, Naval Postgraduate Dental School; Diplomate, American Board of Prosthodontics. Captain Hamlin has no relevant financial relationships to disclose.

6 Assignments. The US Navy Dental Corps designates this activity for 36 continuing education credits.

Text: Contemporary Fixed Prosthodontics, ed. 4, by Stephen F. Rosenstiel, Martin F. Land, and Junhei Fujimoto. CV Mosby, St. Louis, 2006.

The aim of the course is to provide the general practitioner with a review and an update of fixed prosthodontic therapy, including tooth preparation for complete cast crowns, metal-ceramic crowns, partial veneer crown, inlays, onlays, all-ceramic restorations, restoration of endodontically treated teeth, and implant-supported fixed prostheses. Laboratory procedures needed to perform the clinical procedures are covered in detail.

Upon completion of this course, you should be able to:

- describe how to make accurate diagnostic casts and how to articulate them on the appropriate instrument.
- select the appropriate materials and techniques for restoration of a patient. list the indications and contraindications for a complete cast crown. describe the characteristics of the partial veneer restoration preparation.
- determine when a ceramic inlay, onlay, or veneer is the treatment of choice. explain the steps involved in the preparation of a tooth for a post and core.
- determine when implants may be indicated or contraindicated for a given edentulous site. discuss the indications and contraindications for resin-retained fixed partial dentures.
- list the steps in fabrication of the various all-ceramic restorations.
- discuss the responsibilities of the dentist when requesting laboratory support.
- describe the various aspects of the laboratory work authorization and the importance of completeness.
- discuss the variations in technique for cementing veneers and inlays.
- determine when it would be necessary to retreat rather than repair the prosthesis.

Medical Emergencies in the Dental Office (NAVEDTRA 13125-B) Original Release 2018/Expires 2021

Course Editor: Captain John H. Wilson, DC, USN; DMD, Medical College of Georgia; MS, George Washington University; Certificate in Periodontics, Naval Postgraduate Dental School; Diplomat, American Board of Periodontology. Captain Wilson has no relevant financial relationships to disclose.

6 Assignments. The US Navy Dental Corps designates this activity for 36 continuing education credits.

Text: Medical Emergencies in the Dental Office, ed. 7, by Stanley F. Malamed. CV Mosby, St. Louis, 2014.

This course was developed in order to provide a stimulus to the dentist to be cognizant of the increasing importance of prevention of medical emergencies. A majority of the medical emergencies occurring in the dental office are preventable by having an adequate system of patient evaluation, treatment

modification and management. This course includes discussion of Prevention, Unconsciousness, Respiratory Distress, Altered Consciousness, Seizures, Drug-Related Emergencies, Chest Pain and Cardiac Arrest.

Upon completion of this course, you should be able to:

- understand four factors that would increase the likelihood of a life-threatening emergency
- understand how these can be minimized by pretreatment physical evaluation
- understand the components of a thorough physical evaluation
- identify equipment and training needed for treatment of medical emergencies
- understand the legal aspects of practicing dentistry
- understand causes of unconsciousness, diagnosis and basic treatment
- be familiar with reasons for vasodepressor syncope, diagnosis and treatment
- diagnose postural hypotension, its causes, physiology and treatment
- perform differential diagnosis for unconscious patient based on the factors presented
- understand partial airway obstruction, causes and treatment as well as physiological aspects
- recognize acute foreign body airway obstruction and discuss its prevention and treatment
- discuss physiology of hyperventilation, causes and treatment
- understand diagnosis, pathophysiology and treatment of asthma
- understand airway obstruction associated with heart failure and acute pulmonary edema
- develop differential diagnosis for respiratory distress based on the factors presented
- discuss general considerations that cause altered consciousness
- understand pathophysiology of altered blood glucose, management of diabetes and emergencies associated with fluctuations in blood sugar
- outline normal function of the thyroid gland and the result of hyper and hypo function
- relate active variations in cerebral blood flow, causes and resulting altered consciousness
- create a differential diagnosis for a patient's altered consciousness based on factors reviewed
- understand the pathophysiology, management and treatment of seizures
- discuss the types of medications used in dentistry and complications that can arise with their use
- identify causes of toxic drug reactions, their prevention and management
- understand the immunology of allergy, prevention and management of allergic reactions
- develop a differential diagnosis for an adverse drug reaction to determine appropriate treatment
- identify causes of chest pain, etiology of cardiovascular disease and prevention
- understand the pathophysiology of angina pectoris and treatment, modification of dental care for patients with angina
- understand the pathophysiology of myocardial infarction, treatment and modification of dental care for patients with a history of myocardial infarction
- develop a differential diagnosis for a patient with chest pain based on the factors presented
- describe the symptoms of a patient undergoing cardiac arrest and emergency care

- discuss medical emergencies in the pediatric dental patients, prevention and management

Occlusion (NAVEDTRA 13114-C) Original Release 2015/Reviewed 2019/Expires 2022

Course Editor: Captain Michael Rudmann, DC, USN; DMD, University of Pennsylvania School of Dental Medicine; MS, George Washington University; Certificate in Comprehensive Dentistry, Naval Postgraduate Dental School; Diplomate, American Board of General Dentistry. Captain Rudmann has no relevant financial relationships to disclose.

5 Assignments. The US Navy Dental Corps designates this activity for 12 continuing education credits.

Text: Comprehensive Occlusal Concepts in Clinical Practice. Irwin M. Becker. Wiley-Blackwell, 2011.

The purpose of this correspondence course is to introduce the dentist to general occlusal concepts that can be incorporated into their everyday practice. The course aims to address “occlusal principals from a functional, parafunctional, periodontal and esthetic perspective.” An understanding of dental occlusion and how it applies to the restorative dentistry is essential to the long term success of all dental restorations. With this background, a provider should be able to complete an occlusal exam, identify occlusal disease and plan restorations that work in harmony with the patient’s stomatognathic system.

Upon completion of this course, you should be able to:

- understand the relationship of parafunction and occlusion
- understand the components of a complete occlusal exam
- understand the aspects of pathological functioning of the masticatory system
- understand the relationship of sleep and parafunction
- identify the pathologic changes expressed by the the components of the masticatory system as a result of excess mechanical load on the system.
- understand the requirements of Centric Relation
- understand the procedures for evaluation of the TMJ complex
- understand the principles of establishing a physiologic occlusion
- understand the observations to be made during initial interview
- understand the evaluation and role of muscles in the stomatognathic system
- understand the effect of occlusion on the progression of periodontal disease
- understand how to integrate occlusal concepts into treatment planning
- understand The indications and goals of occlusal bite splint(OBS) therapy
- understand the applications for different types of OBS
- understand the procedure for the fabrication of and OBS
- understand the effect of OBS therapy on the muscles of mastication and the temporomandibular joint complex
- understand how to perform a comprehensive evaluation and occlusal adjustment on accurately mounted casts
- understand how to use this information to plan an occlusal adjustment on a patient
- understand how to communicate critical information on case design to the dental lab technician

Operative Dentistry (NAVEDTRA 13146-B) Original Release 2007/Reviewed 2019/Expires 2022

Course Editor: Captain Scott Kooistra, DC, USN; DDS, Indiana University School of Dentistry; MS,

University of Michigan School of Dentistry; Certificate in Operative Dentistry, University of Michigan; Certified, American Board of Operative Dentistry. Captain Kooistra has no relevant financial relationships to disclose.

5 Assignments. The US Navy Dental Corps designates this activity for 30 continuing education credits.

Text: is *Fundamentals of Operative Dentistry*, by James B. Summitt, et al., third edition, published by Quintessence Publishing Company, Inc., 2006.

The discipline of operative dentistry has undergone many changes in recent years because of such things as improved dental material and equipment, increased emphasis on prevention, advanced concepts of preparation design, and more exacting histological research. Keeping current in the discipline requires study and dedication. However, the advantages derived by you and patients justify the time and effort spent on continuing education. This course provides you with an opportunity to enhance your skills in all areas of operative dentistry, including prevention, interception, preservation, and restoration.

Upon completion of this course, you should be able to:

- understand the structure and differences of the components that comprise a tooth discuss caries as a disease and be familiar with risk factors associated with caries.
- learn how to establish a problem list and treatment plan to successfully manage the patients dental disease
- understand the classification of caries and tooth preparations
- understand Black's steps in cavity preparation
- understand the nomenclature for hand and rotary instruments
- list the options for operative field isolation. Discuss the advantages and disadvantages of each. describe Class 1 and 2 preparations
- describe retention and resistance methods identify matrix systems and their applications
- describe the process of the placement and carving of amalgam
- discuss the diagnosis and treatment of root caries, specifically, prevalence and incidence, risk factors and assessment, diagnosis, and preventive, chemotherapeutic and restorative treatment options
- list the fluoride releasing materials
- understand the following characteristics of fluoride:
 - fluoride recharging
 - antibacterial effects of fluoride
 - do fluoride releasing materials inhibit caries?
- understand advantages of indirect resin inlay/onlay over direct resin composite restorations. understand the indications for ceramic versus resin indirect inlay/onlay restoration in terms of microleakage, bonding, wear, and occlusal stability.
- understand the basic preparation designs for CAD/CAM esthetic inlay and onlay compared with indirect laboratory fabricated restorations.
- understand the advantages of cast gold restoration over direct restorative materials.
- understand marginal placement and finishing in terms of gingival health.

Oral Pathology (NAVEDTRA 13150-B) Original Release 2011/Reviewed 2018/Expires 2021

Course Editor: Captain James T. Castle, DC, USN; DDS, Creighton University School of Dentistry; MS, George Washington University; Certificate in Oral & Maxillofacial Pathology, Naval Postgraduate Dental School; Fellow, American Association of Oral & Maxillofacial Pathology; Diplomate, American Board of Oral & Maxillofacial Pathology. Captain Castle has no relevant financial relationships to disclose.

7 Assignments. The US Navy Dental Corps designates this activity for 42 continuing education credits.

Unit 1: 1-4. The US Navy Dental Corps designates this activity for 24 continuing education credits.

Unit 2: 5-7. The US Navy Dental Corps designates this activity for 18 continuing education credits.

Text: *Oral and Maxillofacial Pathology*, 3rd edition, by Brad W. Neville, Douglas D. Damm, Carl M. Allen, and Jerry E. Bouquot, published by the W.B. Saunders Company, 2009.

This course is intended as an aid to those who wish to supplement their previous training and clinical experience, and to help the general dentist remain current in the field of oral pathology. This course will enhance the clinician's ability to distinguish between similar-appearing lesions by presenting the significant and unique characteristics of relatively common oral diseases.

Upon completion of this course, you should be able to:

- differentiate developmental cysts and other anomalies
- describe the pathologic processes of pulpal and periradicular disease related to tooth borne and periodontal processes
- discuss the clinical causes, features and treatments of bacterial infections specific to the head and neck as well as the oral cavity
- describe bacterial infections that can be found locally as well as systemically
- discuss the effects, clinical signs and symptoms of sexually transmitted diseases and how they affect the oral cavity
- identify the different forms of candidiasis as well as its treatment
- describe and identify additional fungal and protozoal diseases and how they affect the oral cavity as well as the head and neck
- describe the clinical presentations of the different forms of the human herpes virus as well as other viral pathogens that have a systemic profile in addition to affecting the oral cavity
- discuss the clinical causes and appearances of varying traumatic and physical changes to the oral cavity as well as treatment for these entities
- describe and discuss the clinical and radiographic signs and symptoms of common chemicals and their effects on the oral cavity
- identify a number of the different forms of allergic and immunologic diseases and their telltale signs within the oral cavity
- identify and describe select forms of benign and malignant epithelial lesions common to the oral cavity as well as the head and neck
- recognize non-neoplastic salivary gland pathology and describe treatment options
- identify the characteristics of Sjögren syndrome and its associated conditions
- identify benign and malignant salivary gland neoplasms and the most common locations for each respectively
- identify syndromes associated with soft tissue tumors
- identify the neoplastic cell type of hematologic malignancies

- describe and discuss the clinical and radiographic features of various benign and malignant fibro-osseous lesions common to the maxillofacial skeleton
- describe and discuss the clinical and radiographic features along with developing an appropriate differential diagnosis for the various odontogenic cysts and tumors
- identify and describe select forms of dermatologic diseases which tend to have oral and maxillofacial involvement
- categorize diseases according to their etiology/etiologies
- understand how the physiology of each disease results in specific manifestations of the oral cavity
- understand how the treatment of each disease affects signs and symptoms of the oral cavity
- understand the difficulty of recognizing and treating facial pain conditions
- compare and contrast osteoarthritis and rheumatoid arthritis

Oral Surgery (NAVEDTRA 13105-B) Original Release 2014/ Reviewed 2018/ Expires 2021

Course Editor: Commander Daniel Honl, DC, USN; DDS, Marquette University School of Dentistry; Certificate in Oral Surgery, National Capital Consortium; Diplomate, American Board of Oral & Maxillofacial Surgery; Fellow American Association of Oral & Maxillofacial Surgeons. Commander Honl has no relevant financial relationships to disclose.

10 Assignments. The US Navy Dental Corps designates this activity for 54 continuing education credits.

Unit 1: 1-5. The US Navy Dental Corps designates this activity for 26 continuing education credits.

Unit 2: 6-10. The US Navy Dental Corps designates this activity for 28 continuing education credits.

Text: *Contemporary Oral and Maxillofacial Surgery*, ed 6. JR Hupp, E Ellis III, MR Tucker. CV Mosby, St. Louis, 2014.

This course presents detailed coverage of principles and procedures in the main phases of oral and maxillofacial surgery. The course covers such subjects as general principles of surgery, exodontia, preprosthetic surgery, infections, management of oral pathologic lesions, oral and maxillofacial trauma, and dentofacial deformities.

Upon completion of this course, you should be able to:

- develop a comprehensive diagnostic approach and surgical treatment plan rationale for various treatment entities
- demonstrate proper operating room protocol, including scrub techniques and surgeon and assistant preparation
- recognize and manage common postoperative problems
- describe the basic aspects of atraumatic erupted tooth extraction, including position of the patient, surgeon, chair, and assistant, and the armamentarium and movements necessary to extract each tooth
- describe the principles of flap design, surgical extraction techniques, and suturing techniques
- describe the principles of patient evaluation and treatment planning for preprosthetic surgery
- diagnose and treatment plan the complex facial space infections
- describe how to perform a patient examination and a diagnostic evaluation of soft and hard tissue lesions
- describe what diagnostic modalities are used in the evaluation of hard and soft tissue injuries
- explain the presurgical/surgical phases of care

- describe the physiology of pain and the manner in which neurogenic pain problems of the head and neck region are managed

Orofacial Pain (NAVEDTRA 13153-B) Original Release 2019/Expires 2021

Course Editor: Captain Istvan A. Hargitai, DC, USN; DDS, Case Western Reserve University; MS, George Washington University; Certificate in Oral Medicine, Naval Postgraduate Dental School; Certificate in Orofacial Pain, Naval Postgraduate Dental School; Diplomate, American Board of Oral Medicine; Diplomate, American Board of Orofacial Pain; Certificate I Medical Acupuncture, Helms Medical Institute. Captain Hargitai has no relevant financial relationships to disclose.

4 Assignments. The US Navy Dental Corps designates this activity for 27 continuing education credits.

Text: *Orofacial Pain; Guidelines for Assessment, Diagnosis, and Management*, ed 6. R de Leeuw, GD Klasser. Quintessence Publishing Co Inc, Hanover Park, IL, 2018.

The purpose of this correspondence course is to introduce the dentist to the array of conditions that produce orofacial pains. This is a subject sparsely covered by dental schools. This course will cover the pathophysiology of pain in the head and neck region, providing the reader a neuroanatomical background to better understand pain mechanisms. With this background, the provider can make the finer distinctions required to arrive at a correct diagnosis with an appropriate management plan. This course will provide the dental professional with a firm background into the rapidly expanding field of orofacial pain.

Upon completion of this course, you should be able to:

- understand the neuroanatomical wiring in trigeminally mediated pains
- make a thorough pain assessment
- appreciate the psychosocial aspects of chronic pain
- understand TMJ function and dysfunction
- elaborate on masticatory muscle pain and fatigue
- discuss and differentiate tension headaches, migraines, and trigeminal autonomic cephalalgias
- identify and suggest management for neuropathic pain
- be aware of referred pain and secondary causes of orofacial pain
- describe a variety of intraoral pain control conditions and their management
- familiarize oneself with the interaction between sleep disorders and pain.

Orthodontics (NAVEDTRA 13136-B) Original Release 2013/Reviewed 2019/Expires 2022

Course Editor: Commander Sennay M. Stefanos, DC, USN; DDS, Meharry Medical College; MS, Norfolk State University; MS, University of Pennsylvania; Certificate in Orthodontics, University of Pennsylvania. Commander Stefanos has no relevant financial relationships to disclose.

6 Assignments. The US Navy Dental Corps designates this activity for 42 continuing education credits.

Text: *Contemporary Orthodontics*, 4th edition. WR Proffit, HW Fields, Jr., DM Sarver, Mosby/Elsevier, St. Louis, 2007.

The aim of this course is to help you improve your ability to assess and diagnose orthodontic problems

and to familiarize you with the basic orthodontic techniques in managing patients with these problems. This course provides practical guidelines for the General Dentist in the preliminary diagnosis of patients with orthodontic problems. These guidelines may also be used when minor tooth movement is being considered. The course has six assignments and covers such subjects as the development of orthodontic problems, diagnosis and treatment planning, biomechanics and mechanics, fixed and removable appliances, treatment of orthodontic problems in preadolescent children, comprehensive orthodontic treatment in the early permanent dentition, and treatment for adults.

Upon completion of this course, you should be able to:

- describe normal occlusion and the different classes of malocclusion
- discuss the sites and types of growth in the cranial vault, cranial base, maxilla and mandible describe the process of tooth eruption and the developmental sequence of the permanent dentition describe the dimensional and rotational changes that occur during the development of the maxilla and mandible
- discuss the contemporary perspective on the etiology of crowding, malalignment and skeletal problems
- understand and use the various methods of space and cephalometric analysis describe the sequence of steps in orthodontic treatment planning
- discuss the effects of orthodontic force on the midface, maxilla and mandible list the indications for banding
- discuss the method of closing extraction spaces using moderate and maximum anchorage

Pediatric Dentistry (NAVEDTRA 13115-B) Original Release 2015/Reviewed 2019/Expires 2022

Course Editor: Captain Sabina S. Yun, DC, USN; DDS, Northwestern University, School of Dentistry; Certificate in Pediatric Dentistry, University of Illinois at Chicago. Captain Yun has no relevant financial relationships to disclose.

7 Assignments. The US Navy Dental Corps designates this activity for 42 continuing education credits.

Text: *Dentistry for the Child and Adolescent*, ed. 9, Ralph E. McDonald and David R. Avery. Mosby, St. Louis, 2011

Upon completion of this course, you should be able to:

- identify the signs of substance abuse in their patients.
- describe the basic categories of behavior management and discuss how they are used to achieve the behavior management goals.
- list the indications and contraindications for the use of restraint and state the AAPD guidelines for the use of restraint.
- list the indications for the use of HOME and be able to describe how it is used properly. differentiate between the various genetic alterations which lead to genetic diseases or anomalies
- identify and discuss the etiology and management of common oral infectious processes related to the dentition and periodontal structures.
- identify and manage common developmental anomalies of the teeth.
- identify early exfoliation in the child dental patient, and have an appreciation of the disorders often associated with this phenomenon.
- identify the various causes and treatment of enamel hypoplasia.

- identify the abnormal labial frenum, and counsel parents appropriately concerning its management.
- describe some of the frequently encountered tumors of the soft tissues and bone in children
- identify measures used for the control of caries
- identify nutritional considerations for the pediatric patient
- understand the goals of pharmacologic behavior management techniques
- know the American Academy of Pediatric Dentistry guidelines for the elective use of conscious sedation, deep sedation, and general anesthesia in pediatric patients
- know the indications and contraindications for the use of nitrous oxide analgesia determine when pulpotomy or pulpectomies are the treatment of choice
- choose appropriate medicaments for pulp capping and pulpotomy procedures understand the reasons for failure of pulp therapy
- identify and discuss various fixed and removable prosthetic devices for the transitional and permanent dentition
- discuss various materials used for mouth guards understand basic growth concepts
- examine the face in a systematic manner
- describe primary and permanent molar relationships

Periodontics (NAVEDTRA 13157-B) Original release 2017/Reviewed 2019/Expires 2022

Course Editor: Captain John H. Wilson, DC, USN; DMD, Medical College of Georgia; MS, George Washington University; Certificate in Periodontics, Naval Postgraduate Dental School; Diplomat, American Board of Periodontology. Captain Wilson has no relevant financial relationships to disclose.

10 Assignments. The US Navy Dental Corps designates this activity for 54 continuing education credits.

Unit 1: 1-5. The US Navy Dental Corps designates this activity for 26 continuing education credits.

Unit 2: 6-10. The US Navy Dental Corps designates this activity for 28 continuing education credits.

Text: *Carranza's Clinical Periodontology*, 12th edition, by Michael G. Newman, Henry Takei, Fermin A. Carranza and Perry R. Klokkevold, published by the W.B. Saunders Company, 2015.

Periodontal diseases are prevalent throughout the world, and it is estimated that these diseases are the major cause of tooth loss in adults. It is essential, therefore, that periodontal health be considered in all treatment plans. This requires an understanding of the causes, treatment, and prevention of periodontal diseases. By applying such knowledge, you will achieve successful periodontal treatment for your patients. The aim of this course is to help you improve your ability to detect or foresee conditions conducive to periodontal diseases and to correct such conditions or prevent them from developing.

Upon completion of this course, you should be able to:

- understand the impact of Evidence-Based Medicine in Periodontics
- understand the hierarchies of evidence
- understand the concept of systematic reviews
- understand the difference between incidence and prevalence
- understand the difference between sensitivity and specificity
- understand of the etiology and pathogenesis of periodontal diseases

- discuss how host responses can contribute to the progression of periodontal diseases
- understand strategies in the use of host modulation to control periodontal diseases
- understand a classification for gingival enlargement
- identify drugs commonly associated with gingival enlargement
- describe the systematic and organized steps in gathering the information needed for the evaluation of the periodontal patient
- understand the features associated with the different types of periodontitis
- describe the steps needed for conducting a periodontal examination
- have full knowledge of the Periodontal Screening and Recording System (PSR)
- manage the patient with necrotizing ulcerative gingivitis (NUG)
- identify treatment options for the treatment of patients with oral herpes simplex infections
- understand the efficacy and clinical outcomes of professionally delivered and home delivered irrigation
- discuss the safety concerns of supra/subgingival irrigation
- describe ways to evaluate results of regenerative procedures
- understand the concept of guided tissue regeneration (GTR)
- understand the use of root biomodifiers and enamel matrix derivatives (EMD)

Sleep Medicine for Dentists (NAVEDTRA 13156-A) Original Release 2013/Reviewed 2019/Expires 2022

Course Editor: Captain Istvan A. Hargitai, DC, USN; DDS, Case Western Reserve University; MS, George Washington University; Certificate in Oral Medicine, Naval Postgraduate Dental School; Certificate in Orofacial Pain, Naval Postgraduate Dental School; Diplomate, American Board of Oral Medicine; Diplomate, American Board of Orofacial Pain; Certificate in Medical Acupuncture, Helms Medical Institute. Captain Hargitai has no relevant financial relationships to disclose.

4 assignments. The U.S. Navy Dental Corps designates this activity for 16 continuing education credits.

Text: Sleep Medicine for Dentists by Gilles J. Lavigne, Peter A Cistulli, Michael T. Smith. Quintessence Publishing Co Inc, Hanover Park, IL, 2009.

The purpose of this correspondence course is to introduce the dentist to the topic of sleep medicine. This is a subject that is sparsely covered by dental schools. The sleep disorders covered in this book are now manageable by dentists working with a sleep medicine team. A large part of the book is devoted to obstructive sleep apnea and its management. This course will provide the dental professional with a firm background into the new expanding field of dental sleep medicine.

Upon completion of this course, you should be able to:

- understand the sleep-wake cycle and circadian rhythm
- Know the taxonomy between different stages of sleep
- recognize a number of sleep disorders
- understand the pathophysiology, work-up, diagnosis, and management of obstructive sleep apnea (OSA)
- appreciate the management of OSA by continuous positive airway pressure
- understand the management of OSA by oral appliances

- distinguish between different categories of sleep movement disorders to include bruxism
- understand the various ways in which sleep bruxism may be managed
- outline the ways in which sleep disorder may modulate chronic orofacial pains
- list pharmacologic and non-pharmacologic ways to manage insomnia to include sleep hygiene instructions

DVD Series

This series consists of video programs by Naval Postgraduate Dental School staff and guest lecturers on subjects of interest to dentists on active duty. The series provides dentists with an alternative form of continuing education that will enable them to provide better dental care. These DVDs are available to all Federal agency dentists. No costs are involved except postage costs when returning materials. Those having access to the Relias Health portal (Navy, Air Force, some Army) can access these videos online.

The programs may be used on an individual or group basis. A post-test must be taken in order to receive CE credits. You must achieve a passing grade of at least 80% on the test and return the DVD to the Naval Postgraduate Dental School before a completion letter can be issued.

Please see each DVD description for the length of the video program, instructional format, number of CE credits granted, and date produced.

Keys to Success: Guided Tissue Regeneration

The US Navy Dental Corps designates this activity for 3 continuing education credit. (two DVDs, 158 minutes, lecture, Original Release 2013/Reviewed 2019/Expires 2022)

This video program consists of two DVDs containing a lecture by Dr. Gerald Bowers focusing on Guided Tissue Regeneration.

After viewing the DVDs you should be able to:

- Identify factors that will contribute to successful outcomes in guided tissue regenerative therapy.
- Be familiar with the Histologic Evaluation of New Attachment Apparatus Formation in Humans studies and what they showed relative to periodontal regeneration.
- Understand the success rates that are possible with GTR.
- Understand the surgical sequence and steps for Guided Tissue Regeneration (GTR) and the therapeutic rationale for each.

Presenter : Dr. Gerald Bowers; DDS, University of Michigan; Certificate in General Dentistry, Navy Dental School; M.S. and Certificate in Periodontology, Ohio State University; Professor Emeritus, Baltimore College of Dental Surgery. Dr. Bowers has no relevant financial relationships to disclose.

Nitrous Oxide Sedation: Pain Control, Equipment and Techniques

The US Navy Dental Corps designates this activity for 2 continuing education credits. (87 minutes, lecture, Original Release 2008/Reviewed 2019/Expires 2022)

This video program presents the history and background of nitrous oxide sedation. It covers the stages of sedation, properties of nitrous oxide, contraindications, potential complications, and equipment used. The purpose of the program is to review vital information concerning the proper use of nitrous oxide sedation. This program is of most benefit to those dentists who are credentialed to use nitrous oxide and would like to review information on the topic. Also, auxiliary personnel who assist dentists in using nitrous oxide would benefit from the program. Completing this course does not mean you are credentialed to deliver

nitrous oxide analgesia at your facility. Inquire at your facility for credentialing information.

After viewing this DVD you should be able to:

- discuss physiologic monitoring and the equipment used in such monitoring describe the basic components of inhalation sedation equipment
- discuss the function of each of the basic components of inhalation sedation equipment
- list the indications and contraindications for the use of nitrous oxide-oxygen inhalation sedation list the complications associated with nitrous oxide-oxygen inhalation sedation
- discuss the prevention, recognition, and management of these complications

Presenter: Lieutenant Commander Mark Boone, DC, USN; BS, United States Merchant Marine Academy; DMD, University of Kentucky College of Dentistry; MS, Indiana University; Diplomate, American Board of Pediatric Dentistry. Lieutenant Commander Boone has no relevant financial relationships to disclose.

Principles and Techniques of Biopsies of the Oral Cavity

The US Navy Dental Corps designates this activity for 1 continuing education credit.

(23 minutes, lecture, Original Release 2011/Reviewed 2018/Expires 2021)

This video program focuses on the principles and techniques of biopsies of the oral cavity.

After viewing this DVD you should be able to:

- explain the different types of biopsies, their limitations and their different indications
- explain when to biopsy an oral lesion
- explain the basic anesthesia considerations and operative techniques of biopsies
- explain the importance of proper specimen handling, fixative media and labeling

Presenter: Lieutenant Commander Michael Ray, DC, USN; DDS, Baylor College of Dentistry, Certificate in Oral and Maxillofacial Surgery, Baylor College of Dentistry and Baylor University Medical Center, Diplomate, American Board of Oral and Maxillofacial Surgery. Lieutenant Commander Ray has no relevant financial relationships to disclose.

Sleep Apnea Management by Mandibular Advancement Device

The US Navy Dental Corps designates this activity for 1 continuing education credit. (one DVD, 41 minutes, lecture, Original Release 2014/Reviewed 2018/Expires 2021)

After viewing this DVD you should be able to: The viewer will understand the pathophysiology and negative health consequences of obstructive sleep apnea (OSA).

- The viewer will learn the dental management of OSA.
- The viewer learn the clinical steps involved in the delivery of a mandibular advancement device (MAD).
- The viewer will understand the laboratory fabrication process of a MAD.

Presenter : CAPT Istvan (Steve) Hargitai, DC, USN; DDS, Case Western University; Certificate in Oral Medicine, NPDS; Certificate in Orofacial Pain, NPDS; MS, George Washington University; Diplomate, American Board of Oral Medicine; Diplomate, American Board of Orofacial Pain; Certificate in Medical Acupuncture, Helms Medical Institute. Captain Hargitai has no relevant financial relationships to disclose.

**APPLICATION FORM FOR NAVAL POSTGRADUATE DENTAL SCHOOL
CORRESPONDENCE COURSES AND DVDS**

1. Fill in items A through I below. Typed applications are preferred for clarity.
2. All relevant items must be completed or the application will be returned.
3. Submit your application form by e-mail to patrick.w.mcmahon2.civ@mail.mil, fax to (301) 295-5767 or DSN 295-5767, or mail the completed application to: Educational Resources, Naval Postgraduate Dental School, 8955 Wood Road, Bethesda, MD 20889-5628.
4. If you do not receive course materials within a reasonable time, please send an email to patrick.w.mcmahon2.civ@mail.mil, or telephone DSN 285-4832 or (301) 319-4832
5. **I understand that if I am not making satisfactory progress within six (6) months I will be terminated as a student and will be expected to immediately, upon notification, return the text, or other materials, to the Naval Postgraduate Dental School.**

PRIVACY ACT STATEMENT: Under the authority of Title 5 USC 301, information regarding your military or other DOD status is requested in order to evaluate individual applications for enrollment in the Naval Correspondence Course program. The information will also be used to process course completion letters and to construct and maintain an official and continuing manual and/or automated record of correspondence course participation. The cumulative course participation record will not be divulged, without written authorization, to anyone other than those within the DOD for official use in determining performance and effecting organizational and administrative management. The transmittal of pertinent information to persons/institutions of the individual's selection may be effected by a signed statement by the individual concerned. Completion of this form is voluntary; however, failure to provide the required information will result in an inability to process this application.

LOAN AGREEMENT (for DVDs): It is understood that these are US Government films and in consideration of the privilege to borrow them free of charge it is agreed that (1) they will not altered in any way; (2) they will not be shown where a viewing admission is charged; (3) no part of them will be duplicated; (4) they will be returned promptly to this activity, postage prepaid (library rate must be used).

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