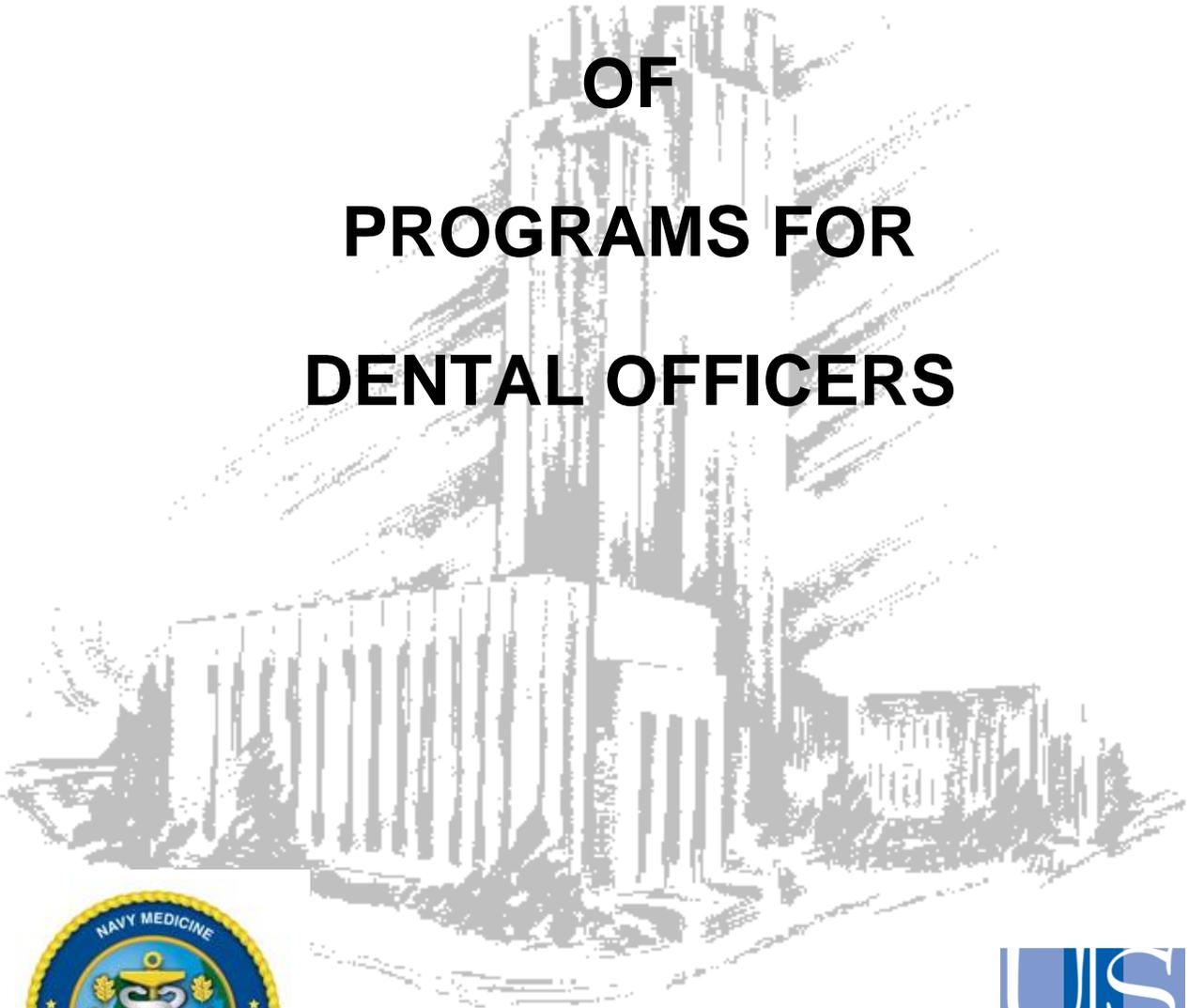


**2013-2014**



**CATALOG**  
**OF**  
**PROGRAMS FOR**  
**DENTAL OFFICERS**



**Naval Postgraduate Dental School**  
**Navy Medicine Professional Development Center**  
**8901 Wisconsin Ave.**  
**Bethesda, Maryland 20889-5602**

# **PROGRAMS FOR DENTAL OFFICERS at the NAVAL POSTGRADUATE DENTAL SCHOOL**

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## CALENDAR FOR ACADEMIC YEAR 2013-14

### 2013

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First Year Residents Report	Monday, 29 July
Labor Day	Monday, 2 September
Columbus Day	Monday, 14 October
Veterans Day Holiday	Monday 11 November
Thanksgiving Leave Period	Thursday-Friday, 28 November -1 December
Christmas Leave Begins	Friday, 20 December, 1600 hrs

### 2014

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Classes Resume	Monday, 6 January
Martin Luther King's Birthday	Monday, 20 January
Presidents' Day	Monday, 17 February
Spring Leave Begins	Friday, 4 April, 1600 hrs
Classes Resume	Monday, 14 April
Memorial Day Holiday	Monday, 26 May
Graduation	Friday, 20 June

No classes will be held on the holidays listed.

Additional copies of this and other Naval Postgraduate Dental School catalogs can be obtained by writing to the Dean, Naval Postgraduate Dental School, Navy Medicine Personnel Development Center (Code NPDS), 8901 Wisconsin Avenue, Bethesda, Maryland 20889-5602.

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## INTRODUCTION

The Naval Dental School opened on February 3, 1923, as the Dental Department of the United States Naval Medical School, Washington, D.C. Its twofold purpose was the postgraduate instruction of officers of the Dental Corps of the US Navy and the training of hospital corpsmen to serve as dental assistants. In 1942, the newly designated National Naval Medical Center, including the Naval Dental School, was established in Bethesda, Maryland. The dental school was redesignated the Naval Graduate Dental School in 1971 and the National Naval Dental Center in 1975. In 1983, the Naval Dental Clinic, Bethesda, was established, with the Naval Dental School as a component facility. In 1989, the Naval Dental Clinic was renamed the National Naval Dental Center. In 1999, the Naval Dental School was renamed the Naval Postgraduate Dental School (NPDS). In 2004, the National Naval Dental Center was disestablished. In 2010, the Naval Postgraduate Dental School joined an academic alignment with the Postgraduate Dental College of the Uniformed Services University, Bethesda, MD. Under the command and support of the Navy Medicine Professional Development Center, the Naval Postgraduate Dental School conducts advanced programs for dental officers that are designed to help the Dental Corps meet its need for officers who are fully qualified to practice, teach, and conduct research in dentistry. The programs are as follows:

- Two-year residencies in Comprehensive Dentistry and Endodontics
- Three-year residencies in Oral and Maxillofacial Pathology, Orofacial Pain, Periodontics, and Prosthodontics
- One-year fellowship in Maxillofacial Prosthetics
- Two-year fellowship in Orofacial Pain
- One-year Advanced Education in General Dentistry (AEGD-1) program
- Six-month training program in Maxillofacial Prosthetics for Laboratory Technicians

### Admission to Residency Programs

All residents at the Naval Postgraduate Dental School are selected by the Dental Corps Full-Time Duty Under Instruction Selection (DUINS) Board. The DUINS Board meets annually in June to select residents to begin in the next fiscal year. The application deadline is 1 May.

Dental officers should apply via their commanding officer to: Commanding Officer, Navy Medicine Professional Development Center (Code 1WPGDC), 8901 Wisconsin Avenue, Bethesda, Maryland 20889-5411; [GraduatePrograms.DC@med.navy.mil](mailto:GraduatePrograms.DC@med.navy.mil). The following information is required for the application: a statement of motivation concerning background, interests and reasons for requesting residency or fellowship training through the Navy that is consistent with the applicant's abilities and career plan; a maximum of three (3) letters of evaluation, with at least one evaluation written by a specialist in the applicant's discipline of interest; transcripts from college, dental school and any other significant postgraduate education, mailed to the above address; National Board Scores and Graduate Record Examination (GRE) Scores (optional). Complete information on how to apply, including the specified format, is provided in the current BUMEDNOTE 1520. Additional information on programs admissions can be found in the Manual of the Medical Department, chapter 6, section XVI or by contacting Navy Medicine Professional Development Center (Code 1WPGDC) at DSN 295-0650, commercial (301) 295-0650 or (301) 319-4509; [GraduatePrograms.DC@med.navy.mil](mailto:GraduatePrograms.DC@med.navy.mil).

## **Continuing Education Programs**

Information on continuing dental education courses and correspondence courses is given in this catalog under “Continuing Dental Education Program” and “Correspondence Course Program.”

## **Residency Programs**

The Naval Postgraduate Dental School (NPDS) offers a 1-year fellowship in maxillofacial prosthetics, a 2-year fellowship in orofacial pain, 2-year residencies in endodontics and comprehensive dentistry, and 3-year residencies in periodontics, prosthodontics, orofacial pain, and oral and maxillofacial pathology. Dental officers in 2-year programs and those continuing in a third-year-level program can expect to remain at the Naval Postgraduate Dental School through the completion of their residencies. (To meet the requirements of the American Board of Oral and Maxillofacial Surgery, residencies in oral and maxillofacial surgery are conducted at naval hospitals.)

The programs in comprehensive dentistry, endodontics, oral and maxillofacial pathology, periodontics, maxillofacial prosthetics, and prosthodontics are accredited by the Commission on Dental Accreditation (CODA). The Commission is a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-2718 or at 211 East Chicago Avenue, Chicago, IL 60611. The Commission on Dental Accreditation will review complaints that relate to a program's compliance with the accreditation standards. The Commission is interested in the sustained quality and continued improvement of dental and dental-related education programs but does not intervene on behalf of individuals or act as a court of appeal for individuals in matters of admission, appointment, promotion or dismissal of faculty, staff or students. A copy of the appropriate accreditation standards and/or the Commission's policy and procedure for submission of complaints may be obtained by contacting the Commission at 211 East Chicago Avenue, Chicago IL 60611 or by calling 1-800-621-8099 extension 4653.

All formal dental residencies sponsored by the Bureau of Medicine and Surgery, Navy Department, Washington, DC, meet the educational requirements for examination by specialty certifying boards. The curricula for the residency programs at the Naval Postgraduate Dental School are listed and described in this catalog.

## **Master of Science Degree Programs**

Residents will receive the Masters Degree in Oral Biology at the Postgraduate Dental College of the Uniformed Services University of the Health Sciences.

## **Goals of the Naval Postgraduate Dental School**

- Develop clinically proficient specialists for the Federal services
- Prepare, support, and have all residents achieve board certification
- Prepare dental officers to successfully manage specialty or advanced general dentistry practices in the military environment
- Prepare residents to be academic and clinical mentors to members of the Dental Corps, dental profession and Medical Department
- Promote a life-long interest in continued professional development, clinical, education and research endeavors
- Conduct health care research projects and contribute to the professional literature

- Prepare residents to critically review pertinent scientific literature
- Prepare residents for leadership roles

## **Research**

All residents are required to conduct a research project, approved by their Research Committee, following NPDS guidelines. At the conclusion of the residency, each resident will present and defend an oral report of this project and submit a manuscript suitable for publication.

## **Other Educational Resources**

The Naval Postgraduate Dental School arranges with other military and civilian institutions for joint seminars and interschool teaching opportunities. Principal inter-institutional relationships are with the Uniformed Services University of the Health Sciences, Navy Medicine Manpower, Personnel, Training and Education Command, the Armed Forces Radiobiology Research Institute, the Armed Forces Institute of Pathology, Walter Reed National Military Medical Center Bethesda, the National Institutes of Health, Howard University, the University of Maryland, and The National Institute of Standards and Technology. Dental specialists from many scientific and educational institutions are appointed as consultants at the school. Some of these specialists participate in the residency and continuing education programs.

## **Course Designations**

All courses have been assigned Naval Postgraduate Dental School numbers according to the year of study in which they are usually taken: NPDS 200-series, first-year residency level; NPDS 300-series, second-year residency level; and NPDS 400-series, third-year residency level.

## **Common Courses**

A core of common courses has been developed to ensure a well-rounded educational experience. The following are common courses:

- Applied Dental Psychology
- Advanced Oral Diagnosis
- Dental Administrative Management
- Ethics
- Forensic Dentistry
- Management of Medical Emergencies
- Naval Operational Management
- Oral Pathology
- Pharmacotherapeutics
- Systemic Disease in Clinical Dentistry
- Research Methodology

## **Other Background Information**

Those who complete residencies at the Naval Postgraduate Dental School ultimately are expected to attain board certification in their specialty or discipline. A clinical camera and a personal computer are indispensable for capturing and organizing the large volume of information and documentation that will be accumulated during the residency and will be needed for subsequent Board preparation. Because documentation of clinical cases begins early, residents should learn to use a clinical camera

before commencing the program.

It is highly recommended that residents own a clinical camera and become fully acquainted with its use. Although there are computers in the school, most residents elect to purchase their own computer to ensure unimpeded access. This practice is strongly encouraged.

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## **RESIDENCY PROGRAMS**

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### **RESIDENCY PROGRAM IN COMPREHENSIVE DENTISTRY**

Program Director: CAPT Joseph D. Molinaro

The Naval Postgraduate Dental School has been offering postgraduate courses in general dentistry since 1923. These courses have evolved into a 2-year residency program in comprehensive dentistry. This CODA-accredited program is designed primarily for dental officers with 1 to 8 years of clinical experience who desire to learn comprehensive treatment planning for complex cases, develop a high degree of proficiency in all aspects of dental practice, and prepare themselves to become future teachers and mentors. The curriculum also includes courses to educate dental officers in contingency roles, military leadership, and personnel management. During the second year, the graduate is expected to challenge the written portion of the American Board of General Dentistry and, if successful, the oral and treatment planning section the following year.

### **FIRST-YEAR PROGRAM**

The program unites basic and dental sciences in a formal schedule. Courses in the biological sciences are designed to update the dental officer's knowledge in these areas, and the student is then expected to correlate the subject matter with clinical practice. During the year, the dental officer is required to engage in a research project.

#### **First-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 227 Advanced Oral Diagnosis	13
NPDS 249 Anxiolysis	7
NPDS 201 Applied Dental Psychology	8
NPDS 204 Microbiology	20
NPDS 252 Complete Dentures	26
NPDS 223 Dental Implantology	25
NPDS 208 Endodontics	29
NPDS 253 Fixed Prosthodontics	30
NPDS 288 General Dentistry Sick Call Rotation	20
NPDS 281 Forensic Dentistry	14
NPDS 311 Ethics	7
NPDS 318 Seminar of Restorative Dentistry	32

NPDS 218 Management of Medical Emergencies	2
NPDS 344 Maxillofacial Prosthetics (hours 24-26)	3
NPDS 221 Naval Operational Management	12
NPDS 224 Occlusion	25
NPDS 225 Operative Dentistry	38
NPDS 236 Oral and Maxillofacial Pathology	30
NPDS 239 Oral and Maxillofacial Surgery	14
NPDS 285 Orofacial Pain	32
NPDS 240 Orthodontics	20
NPDS 222 Pediatric Dentistry	10
NPDS 241 Periodontics	38
NPDS 228 Pharmacotherapeutics in Clinical Dentistry	18
NPDS 259 Removable Partial Dentures	25
NPDS 263 Research Methodology I	10
NPDS 264 Research Project	120
NPDS 365 Seminar, Comprehensive Dentistry	124
NPDS 368 Seminar, Comprehensive Dentistry ABGD Board Examination	20
NPDS 286 Seminar, Diagnosis and Treatment Planning	4
NPDS 279 Seminar, Operative Dentistry	10
NPDS 217 Specialty Clinic, Comprehensive Dentistry	629
NPDS 231 Systemic Disease in Clinical Dentistry	24
NPDS 353 Treatment Rendered Seminar	24
NPDS 206 Topographical Anatomy	20
NPDS 310 Teaching Methods Seminar	5
Feedback Sessions	7
Orientation, GMT, PRT, etc.	80
Total hours	1575

## **SECOND-YEAR PROGRAM**

The second-year curriculum complements the first-year program and expands the clinical experience to 80 percent of contact hours. Board-certified specialists from each Naval Postgraduate Dental School (NPDS) clinical department are designated as consultants to augment the comprehensive dentistry staff. Each consultant has assignments in the Comprehensive Dentistry Clinic to observe and mentor residents during patient treatment.

The didactic portion of the second-year course consists of regularly scheduled seminars for literature review, clinical pathology, and treatment planning. Periodically, special lecturers and outside consultants are scheduled. In both the clinical and didactic portions of the course, NPDS staff members from each discipline are responsible for articulating the treatment philosophies of their various specialties and coordinating these philosophies with the concept of comprehensive dentistry.

### **Second-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 321 Basic Life Support (Recertification)	4
NPDS 371 Dental Administrative Management	10

NPDS 324 General Dentistry Sick Call Rotation	56
NPDS 314 Oral Surgery Rotation	105
NPDS 323 Orofacial Pain Rotation	16
NPDS 315 Pediatric Dentistry Rotation	35
NPDS 355 Research Methodology II	5
NPDS 369 Research Project	150
NPDS 365 Seminar, Comprehensive Dentistry	124
NPDS 368 Seminar, Comprehensive Dentistry ABGD Board Examination	28
NPDS 367 Seminar, Comprehensive Dentistry ABGD Board Preparation	17
NPDS 331 Seminar, Clinical Oral Pathology	14
NPDS 317 Seminar, Occlusion	9
NPDS 360 Seminar, Oral Medicine	10
NPDS 358 Seminar, Orofacial Pain	6
NPDS 312 Seminar, Orthodontics	7
NPDS 325 Seminar, Periodontics	6
NPDS 359 Seminar, Prosthodontics	12
NPDS 318 Special Guest Lecturers/Consultant Visits	32
NPDS 319 Specialty Clinic, Comprehensive Dentistry	827
NPDS 320 Teaching, Comprehensive Dentistry	5
NPDS 318 Seminar of Restorative Dentistry	32
Treatment Rendered Seminar	24
Feedback Session	1
GMT, PRT, etc.	40
<b>Total hours</b>	<b>1575</b>

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## **RESIDENCY PROGRAM IN ENDODONTICS**

Program Director: CAPT Terry D. Webb

The length of this program is 24 continuous months and involves the study of the morphology, physiology, and pathology of the human dental pulp and apical tissues. It encompasses the basic clinical sciences, including biology of the normal pulp, and the etiology, diagnosis, prevention, and treatment of diseases and injuries of the pulp and associated apical conditions.

To prepare residents to challenge the American Board of Endodontics Board Certification, residents take the ABE Written Examination in June of their second year of residency prior to completing the program. Also included in the board preparation process is writing up ten (10) cases that fit in 7 different categories for the ABE Case Portfolio. Mock Oral examinations are also given multiple times in both first and second years to prepare the residents for that portion of the ABE Exam.

The curriculum also includes military subjects that enable dental officers to undertake contingency roles and to perfect their skills in military leadership and personnel management.

### **FIRST-YEAR PROGRAM**

The first-year program consists of a full calendar year of study. The program provides a formal schedule, with time allotted for research and clinical practice. The courses in the biological sciences

are designed to update the resident's knowledge in these areas and to correlate this subject matter with clinical practice. A significant amount of time is spent in literature and clinical seminars on endodontics. In the seminar format, scientific knowledge, the latest research developments, and clinical concepts such as diagnosis, treatment modalities, treatment options, and patient management are correlated. During the year, the resident devotes attention to developing clinical proficiency and undertakes a research project in the field of Endodontics.

### **First-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 227 Advanced Oral Diagnosis	12
NPDS 249 Anxiolysis	6
NPDS 201 Applied Dental Psychology	8
NPDS 202 Biochemistry	12
NPDS 223 Dental Implantology	24
NPDS 281 Forensic Dentistry	14
NPDS 203 Immunology	20
NPDS 209 Laboratory, Endodontic Technique	58
NPDS 210 Laboratory, Pulp Morphology	12
NPDS 207 Laboratory, Surgical Anatomy	24
NPDS 218 Management Medical Emergencies	2
NPDS 344 Maxillofacial Prosthetics (Oncology)	3
NPDS 204 Microbiology	20
NPDS 221 Naval Operational Management	14
NPDS 225 Operative Dentistry	11
NPDS 239 Oral Surgery	10
NPDS 285 Orofacial Pain	32
NPDS 222 Pediatric Dentistry (hours 1-4)	4
NPDS 241 Periodontics	33
NPDS 228 Pharmacotherapeutics in Clinical Dentistry	18
NPDS 263 Research Methods I	10
NPDS 264 Research Project	120
NPDS 214 Seminar, Classical Endodontics Literature	112
NPDS 211 Seminar, Clinical Endodontics/Presurgical Conference	93
NPDS 265 Seminar, Current Endodontics Literature	48
NPDS 212 Seminar, Endodontics Consultant Series	32
NPDS 215 Seminar, Endodontics/Related Specialties	3
NPDS 216 Specialty Clinic, Endodontics	621
NPDS 231 Systemic Disease in Clinical Dentistry	24
NPDS 206 Topographical Anatomy	20
NPDS 326 Oral and Maxillofacial Pathology Short Course	34
Endodontic Program Critiques	6
Feedback Sessions	3
Orientation, GMT, PRT, etc.	112
<b>Total hours</b>	<b>1575</b>

## SECOND-YEAR PROGRAM

The second-year program consists of a second full calendar year of study and provides continued training in clinical practice, seminars, teaching, and research. The clinical program includes a diversity of clinical experiences, with emphasis on the treatment of challenging and unusual cases. Applications of recent developments and innovations in clinical endodontics are also emphasized. The program includes rotations through several services of the Walter Reed National Military Medical Center Bethesda.

In addition to clinical practice, the program at the Naval Postgraduate Dental School places emphasis on the development of teaching and research capabilities. The resident participates in the teaching program in endodontics and devotes a considerable amount of time to an original research project. The resident continues to participate in the literature and clinical seminars on endodontics and, in addition, participates in clinical oral medicine and oral and maxillofacial pathology seminars. The resident is encouraged to attend short courses, conferences, and lectures on endodontics and related subjects.

### Second-Year Curriculum

<b>Course</b>	<b>Contact Hours</b>
NPDS 321 Basic Life Support (Recertification)	4
NPDS 371 Dental Administrative Management	12
NPDS 300 Endodontic Biology Review (Integral Parts)	24
NPDS 311 Ethics	7
NPDS 309 Laboratory, Surgical Anatomy	24
NPDS 355 Research Project	150
NPDS 369 Research Methodology II	5
NPDS 301 Rotation through WRNMMC, Bethesda	72
NPDS 302 Seminar, Clinical Endodontics/Presurgical Conference	93
NPDS 307 Seminar, Endodontic Surgical Oral Pathology	10
NPDS 364 Seminar, Current Endodontics Literature	48
NPDS 306 Seminar, Endodontics Consultant Series	32
NPDS 303 Seminar, Endodontics Classical Literature	112
NPDS 304 Seminar, Endodontics/Related Specialties	3
NPDS 360 Seminar, Oral Medicine	10
NPDS 305 Specialty Clinic, Endodontics	869
NPDS 308 Teaching, Endodontics	13
NPDS 310 Teaching Methods Seminar	5
Endodontic Program Critique	6
Feedback Session	1
Orientation, GMT, PRT, etc.	75
<b>Total hours</b>	<b>1575</b>

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## **RESIDENCY PROGRAM IN ORAL AND MAXILLOFACIAL PATHOLOGY**

Program Director: CAPT Robert D. Foss

Oral and Maxillofacial Pathology is the specialty of dentistry and pathology that deals with the nature, identification, and management of diseases affecting the oral and maxillofacial regions. It is a science that investigates the causes, processes and effects of these diseases. The practice of Oral and Maxillofacial Pathology includes research, diagnosis of diseases using clinical, radiographic, microscopic, biochemical or other examinations and management of patients.

Training consists of 36 months of didactic, clinical and laboratory coursework with coordinated rotations at the Naval Postgraduate Dental School, the Uniformed Services University of the Health Sciences, Walter Reed National Military Medical Center Bethesda, State of Maryland Medical Examiner's Office, and the Joint Pathology Center (JPC). The program is designed to prepare the resident to practice surgical and clinical Oral and Maxillofacial Pathology within the military medical network. The curriculum also includes military subjects that enable dental officers to undertake contingency roles and to perfect their skills in military leadership and personnel management.

Emphasis is placed on microscopic and clinical diagnoses as well as the proper management of head and neck disease. A research project in the field of Oral and Maxillofacial Pathology is required, with the potential for presentation of the research or a scientific abstract at the annual meeting of the American Academy of Oral and Maxillofacial Pathology. An additional project suitable for publication will also be undertaken while at the JPC.

It is expected that the resident will challenge the American Academy of Oral and Maxillofacial Pathology Fellowship examination. Successful completion of this program leads to a certificate in Oral and Maxillofacial Pathology and eligibility to challenge the American Board of Oral and Maxillofacial Pathology certification examination.

### **FIRST-YEAR PROGRAM**

The first-year of the residency program is conducted at the Naval Postgraduate Dental School (NPDS). It includes training in the biological sciences, particularly as it relates to the morphologic and clinical study of diseases affecting all organ systems of the body with special emphasis on the head and neck regions. Didactic courses in both oral and general pathology are a major focus of the first year along with introduction to surgical microscopy and daily case unknowns. Training in the clinical phases of oral and maxillofacial pathology is obtained through attendance at clinicopathologic conferences and otorhinolaryngic tumor boards, along with selected clinical rotations. A table clinic will be prepared and presented at the Tri-Service dental meeting. Identification of a research topic and preparation of the initial abstract is expected during this year. A degree of self-direction in the program is provided, with the opportunity for the resident to select an emphasis in clinical or oral histopathology through NPDS 250, Independent Study in Special Topics.

## First-Year Curriculum

Course	Contact Hours
NPDS 234 Advanced Oral and Maxillofacial Pathology I	230
NPDS 235 Advanced Oral and Maxillofacial Pathology II	230
NPDS 227 Advanced Oral Diagnosis	12
NPDS 201 Applied Dental Psychology	8
NPDS 202 Biochemistry	12
NPDS 281 Forensic Dentistry	14
NPDS 274 General Pathology	174
NPDS 203 Immunology	20
NPDS 250 Independent Study in Special Topics	408
NPDS 290 Intro. To Basic Histopathology Techniques, Special Procedures, and Lab Mgmt	12
NPDS 218 Management of Medical Emergencies	2
NPDS 344 Maxillofacial Prosthetics (Oncology)	3
NPDS 204 Microbiology	20
NPDS 221 Naval Operational Management	14
NPDS 284 Oral Medicine/Clinical Oral Diagnosis	20
NPDS 236 Oral and Maxillofacial Pathology	30
NPDS 285 Orofacial Pain	32
NPDS 228 Pharmacotherapeutics	18
NPDS 263 Research Methods I	10
NPDS 264 Research Project	120
NPDS 361 Seminar, Advanced Surgical Oral and Maxillofacial Pathology	24
NPDS 289 Seminar, Special Clinical Oral and Maxillofacial Pathology Topics	24
NPDS 237 Seminar, Special Pathology	24
NPDS 231 Systemic Disease in Clinical Dentistry	24
NPDS 311 Ethics	7
NPDS 310 Teaching Methods Seminar	5
Feedback Sessions	3
Orientation, GMT, PRT, etc.	75
Total hours	1575

## SECOND-YEAR PROGRAM

The second year curriculum is comprised of assigned rotations in general pathology at the Walter Reed National Military Medical Center Bethesda, and the State of Maryland Medical Examiner's office, Baltimore, Maryland. Residents will participate in the gross and microscopic examination of surgical specimens, and obtain experience in clinical pathology, hematopathology, cytopathology, and dermatopathology and soft tissue pathology. A minimum rotation of 6 months in surgical pathology is required. Residents must obtain experience with autopsy procedures on at least ten (10) cases. Residents must act as prosector or assistant in a minimum of five (5) autopsies. The residents will actively participate in the continuing education program offered by the medical pathology staff and are encouraged to present head and neck seminar cases during their year-long rotation.

## Second-Year Curriculum

Course	Contact Hours
NPDS 394 General Pathology Rotations	1575
Total hours	1575

## THIRD-YEAR PROGRAM

The third-year curriculum consists of assignment to the Joint Pathology Center (JPC). The JPC acts as a consultation center for Federal pathologists throughout the world. Therefore, this year of training provides the opportunity to study the most unusual and interesting disease processes that occur in, but not limited to, the head and neck in man. Normally, an opportunity to conduct a retrospective study on one or more of these diseases leading to a scientific publication is provided and highly encouraged.

During the third year of study, the resident will help support the continuing education mission of the NPDS and other military commands through seminar presentations. Support for the forensic mission of Armed Forces Medical Examiner will also be provided by the OMFP residents during mass disaster operations on an as needed basis. Challenging the Fellowship examination, which is sanctioned by the Academy of Oral and Maxillofacial Pathology, rounds out this final year.

The following courses are taken at the Naval Postgraduate Dental School in the third year:

### Third-Year Curriculum

Course	Contact Hours
NPDS 360 Seminar, Oral Medicine	10
NPDS 371 Dental Administrative Management	12
NPDS 311 Ethics	7
NPDS 355 Research Methods II	5
NPDS 369 Research Project	150
NPDS 310 Teaching Methods Seminar	5
PDS 494 Joint Pathology Center Rotation	1386
Total Hours	1575

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## RESIDENCY PROGRAM IN OROFACIAL PAIN

Program Director: Dr. John F. Johnson

Orofacial pain is the discipline involving the differential diagnosis and management of pain and dysfunction of the trigeminal nerve system. More specifically, orofacial pain practitioners evaluate and treat pain and dysfunction involving the masticatory system and associated structures throughout the face, head, neck and shoulders that transmit sensory information into the brain via the trigeminal nuclei.

The orofacial pain residency is a three year program that covers an extensive body of basic medical sciences as related to the study of pain. Because of the inherent diversity of orofacial pain condi-

tions, the residency incorporates clinically relevant information from a wide array of other dental and medical disciplines. The residency curriculum also includes courses that enhance a dental officer's abilities regarding contingency roles, military leadership and personnel management. Successful completion of the program qualifies the resident to challenge the certification examination by the American Board of Orofacial Pain.

## **FIRST-YEAR PROGRAM**

The goal of the first-year program is to expose residents to the foundational knowledge and skills that will enable them to participate in a multi-disciplinary pain practice. The first year program places a concentrated emphasis on acquiring the basic medical science information necessary to develop the theoretical constructs required for clinical practice. All residents are required to participate in NPDS research related activities.

### **First-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 206 Topographical Anatomy	20
NPDS 201 Applied Dental Psychology	8
NPDS 218 Management of Medical Emergencies	2
NPDS 227 Advanced Oral Diagnosis	12
NPDS 273 Current Pain Literature Seminar I	40
NPDS 228 Pharmacotherapeutics in Clinical Dentistry	18
NPDS 231 Systemic Disease in Clinical Dentistry	24
NPDS 285 Orofacial Pain	32
NPDS 263 Research Methods I	10
NPDS 264 Research Project	120
NPDS 278 Orofacial Pain Grand Rounds	30
NPDS 276 Orofacial Pain Concepts Seminar I	105
NPDS 219 Specialty Clinic, Orofacial Pain	1013
NPDS 311 Ethics	7
Feedback Sessions	4
Orientation, GMT, PRT, etc.	130
Total hours	1575

## **SECOND-YEAR PROGRAM**

The goal of the second-year program is to develop competency of the resident's multi-disciplinary diagnostic and pain management skills. Pertinent neuroscience, physiology, pharmacology and psychology topics are reinforced via seminars and grand rounds. Approximately 55 percent of the second year will be devoted to clinical activities in the Orofacial Pain Center and specialty rotations.

### **Second-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 236 Oral Pathology	14

NPDS 310 Teaching Seminar	5
NPDS 360 Seminar, Oral Medicine	10
NPDS 355 Research Methodology II	5
NPDS 381 Seminar, Current Pain Literature II	40
NPDS 376 Seminar, Orofacial Pain Concepts II	105
NPDS 382 Seminar, Orofacial Pain Grand Rounds II	30
NPDS 366 Specialty Clinic, Orofacial Pain	1271
GMT, PRT, etc.	95
<b>Total hours</b>	<b>1575</b>

### **THIRD-YEAR PROGRAM**

The goal of the third-year program is to refine the competency of the resident's multi-disciplinary diagnostic and pain management skills and to introduce proficiency in clinical practice. The resident will be assigned responsibilities in seminar preparation and teaching. Residents will rotate through designated medical and surgical services at the Walter Reed National Military Medical Center Bethesda. Each resident will be required to present a research project and submit a thesis manuscript prior to graduation. Approximately 65 percent of the third year will be devoted to clinical activities in the Orofacial Pain Center and specialty rotations.

### **Third-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 249 Anxiolysis	7
NPDS 281 Forensic Dentistry	14
NPDS 321 Basic Life Support (Recertification)	4
NPDS 383 Orofacial Pain Specialty Rotations	120
NPDS 369 Research Project	195
NPDS 481 Seminar, Current Pain Literature III	40
NPDS 476 Seminar, Orofacial Pain Concepts III	105
NPDS 482 Seminar, Orofacial Pain Grand Rounds III	30
NPDS 440 Specialty Clinic, Orofacial Pain	965
GMT, PRT, etc.	95
<b>Total hours</b>	<b>1575</b>

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## **RESIDENCY PROGRAM IN PERIODONTICS**

Program Director: CDR John Wilson

The residency program in periodontics provides 36 months of formal training leading to certification in periodontics within the guidelines established by the Commission on Dental Accreditation. Upon completion of the residency program, the recently trained periodontist will be a clinician familiar with and competent in theoretical and practical knowledge and technical skills pertinent to the specialty. Successful completion of the program enables the resident to challenge the American Board of Periodontology after graduation. The curriculum also includes military subjects that enable

dental officers to undertake contingency roles and to perfect their skills in military leadership and personnel management.

## **FIRST-YEAR PROGRAM**

The first-year program provides a biologic rationale for practice, emphasizing basic science principles, medical and paramedical subjects, and related dental sciences. The resident gains clinical experience in select phases of periodontics, presents patient case reports, and documents and presents patient cases following the requirements and format as set forth by the American Board of Periodontology. The resident participates in a didactic and practical course in moderate conscious sedation and analgesia.

A research project is required to be designed and conducted by the resident and, at the conclusion of the residency; the resident will present an oral report and prepare a manuscript suitable for publication. Seminars are an integral part of the program, and each resident is given a comprehensive bibliography of the periodontal literature for abstraction and discussion. Residents will also participate in selected meetings, seminars, and clinical conferences.

### **First-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 227 Advanced Oral Diagnosis	12
NPDS 372 Advanced Osseointegration	18
NPDS 249 Anxiolysis	7
NPDS 201 Applied Dental Psychology	8
NPDS 202 Biochemistry	12
NPDS 223 Dental Implantology	24
NPDS 208 Endodontics (hours 13, 16, 25-28)	6
NPDS 281 Forensic Dentistry	14
NPDS 203 Immunology	20
NPDS 270 Critically Assessed Topics in Periodontics	9
NPDS 242 Mineralized Tissue Biology	8
NPDS 218 Management of Medical Emergencies	2
NPDS 344 Maxillofacial Prosthetics (Cleft palate and oncology) (hours 17, 23-26)	5
NPDS 204 Microbiology	20
NPDS 200 Moderate Sedation and Analgesia	35
NPDS 221 Naval Operational Management	14
NPDS 224 Occlusion (hours 1-12)	12
NPDS 236 Oral Pathology	29
NPDS 239 Oral Surgery	14
NPDS 285 Orofacial Pain	32
NPDS 240 Orthodontics	22
NPDS 311 Ethics	7
NPDS 222 Pediatric Dentistry (hours 1-4)	4
NPDS 228 Pharmacotherapeutics in Clinical Dentistry	18
NPDS 263 Research Methods I	10
NPDS 264 Research Project	152

NPDS 238 Seminar, Board Case Presentation	30
NPDS 243 Seminar, Current Periodontics Literature	30
NPDS 277 Seminar, Current Periodontal Topics	45
NPDS 247 Seminar, Orthodontics	3
NPDS 213 Seminar, Pediatric Dentistry	3
NPDS 245 Seminar, Periodontics Literature	112
NPDS 246 Seminar, Periodontics/Prosthodontics	15
NPDS 248 Specialty Clinic, Periodontics	634
NPDS 268 Surgical Anatomy Seminar and Laboratory	12
NPDS 395 Seminar, Sinus Lift	3
NPDS 231 Systemic Disease in Clinical Dentistry	24
NPDS 206 Topographical Anatomy	20
Feedback Sessions	7
Orientation, GMT, PRT, etc.	130
<b>Total hours</b>	<b>1575</b>

## **SECOND-YEAR PROGRAM**

The second-year program emphasizes the clinical practice of periodontics, encompassing the variety of problems that may be encountered in a clinical periodontal practice. Additional experience in periodontal histopathology, clinical oral and maxillofacial pathology, case presentation, practice teaching, and the clinical medical sciences will provide further basis for clinical practice. The practical and didactic basis for moderate conscious sedation and analgesia is studied. The resident will participate in a 3-month rotation in the Anesthesia Department of the Walter Reed National Military Medical Center and associated medical rotations to support training to competency in moderate conscious sedation.

### **Second-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 372 Advanced Osseointegration	18
NPDS 412 Anesthesia Rotation	360
NPDS 321 Basic Life Support (Recertification)	4
NPDS 270 Critically Assessed Topics in Periodontics	9
NPDS 242 Mineralized Tissue Biology	8
NPDS 200 Moderate Sedation and Analgesia	35
NPDS 311 Ethics	7
NPDS 335 Seminar, Board Case Presentation (Periodontics)	30
NPDS 331 Seminar, Clinical Oral Pathology	14
NPDS 336 Seminar, Current Periodontics Literature	30
NPDS 334 Seminar, Current Periodontal Topics	45
NPDS 333 Seminar, Orthodontics	3
NPDS 213 Seminar, Pediatric Dentistry	3
NPDS 338 Seminar, Periodontics Literature	112
NPDS 339 Seminar, Periodontics/Prosthodontics	15
NPDS 332 Seminar, Surgical Oral Pathology	10
NPDS 340 Specialty Clinic, Periodontics	750

NPDS 268 Surgical Anatomy Seminar and Laboratory	12
NPDS 341 Teaching, Periodontics	12
Feedback Session	3
GMT, PRT, etc.	95
<b>Total hours</b>	<b>1575</b>

### **THIRD-YEAR PROGRAM**

Additional experience in the periodontal treatment of moderate to severe periodontal cases is provided. More intensive clinical exposure to the diagnosis, treatment planning, and the management of the complex dental implant case will occur.

#### **Third-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 372 Advanced Osseointegration	18
NPDS 371 Dental Administrative Management	12
NPDS 311 Ethics	7
NPDS 270 Critically Assessed Topics in Periodontics	9
NPDS 242 Mineralized Tissue Biology	8
NPDS 310 Seminar, Teaching Methods	5
NPDS 355 Research Methods II	5
NPDS 369 Research Project	150
NPDS 335 Seminar, Board Case Presentation (Periodontics)	30
NPDS 336 Seminar, Current Periodontics Literature	30
NPDS 413 Seminar, Current Periodontal Topics	45
NPDS 333 Seminar, Orthodontics	3
NPDS 213 Seminar, Pediatric Dentistry	3
NPDS 338 Seminar, Periodontics Literature	112
NPDS 339 Seminar, Periodontics/Prosthodontics	15
NPDS 332 Seminar, Surgical Oral Pathology	10
NPDS 340 Specialty Clinic, Periodontics	992
NPDS 268 Surgical Anatomy Seminar and Laboratory	12
NPDS 341 Teaching, Periodontics	12
GMT, PRT, etc.	95
<b>Total hours</b>	<b>1575</b>

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### **RESIDENCY PROGRAM IN PROSTHODONTICS**

Program Director: LCDR Peter Barndt

Advanced training in prosthodontics consists of 3 years of formal study in an integrated program. The 3 years of training fulfill the requirements for examination and certification by the American Board of Prosthodontics. Those candidates in prosthodontics who wish to pursue the specialty of

maxillofacial prosthetics may apply for a fourth year (fellowship) of formal training.

The curriculum also includes military subjects that enable dental officers to undertake contingency roles and to improve their skills in military leadership and personnel management.

## **FIRST-YEAR PROGRAM**

In the first-year program, residents are introduced to the specialty of prosthodontics, its scope, and history. They receive in-depth instruction in the laboratory and clinical aspects of complete dentures, removable partial dentures, fixed partial dentures, maxillofacial prosthetics, implant prosthodontics, and geriatric prosthodontics. Residents are required to know and use the materials and techniques used in patient restoration and perform all phases of laboratory work related to their clinical cases.

Residents participate in literature and treatment planning seminars on specific topics in prosthodontics and on the relationship of prosthodontics to other specialties of dentistry. Each resident must conduct a research study in the field of prosthodontics. All cases are assigned during the first year.

### **First-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 253 Fixed Prosthodontics	18
NPDS 260 Advanced Complete Dentures	62
NPDS 261 Advanced Fixed Prosthodontics	74
NPDS 227 Advanced Oral Diagnosis	10
NPDS 271 Advanced Removable Partial Dentures	26
NPDS 372 Advanced Osseointegration	18
NPDS 249 Anxiolysis	7
NPDS 201 Applied Dental Psychology	8
NPDS 251 Clinic and Laboratory Assignments, Prosthodontics	587
NPDS 252 Complete Dentures	36
NPDS 223 Dental Implantology	24
NPDS 208 Endodontics (Hrs. 12, 14, 15, 25-28)	7
NPDS 281 Forensic Dentistry	14
NPDS 218 Management of Dental and Medical Emergencies	2
NPDS 221 Naval Operational Management	14
NPDS 291 Occlusion (Prosthodontics)	55
NPDS 225 Operative Dentistry	44
NPDS 285 Orofacial Pain	32
NPDS 240 Orthodontics	22
NPDS 222 Pediatric Dentistry (hours 1-4)	4
NPDS 241 Periodontics	14
NPDS 228 Pharmacotherapeutics in Clinical Dentistry	18
NPDS 266 Prosthodontic Oral Board I	3
NPDS 347 Prosthodontics Conference, Guest Seminararians	40
NPDS 259 Removable Partial Dentures	26
NPDS 264 Research Project	120

NPDS 257 Seminar, Prosthodontics/Endodontics	3
NPDS 351 Seminar, Prosthodontics Literature	66
NPDS 362 Seminar, Prosthodontics/Oral Surgery	6
NPDS 352 Seminar, Prosthodontics/Periodontics	9
NPDS 356 Seminar, Treatment Planning	24
NPDS 231 Systemic Disease in Clinical Dentistry	24
NPDS 206 Topographical Anatomy	20
NPDS 321 Basic Life Support	4
Feedback Sessions	4
Orientation, GMT, PRT, etc.	130
<b>Total hours</b>	<b>1575</b>

## **SECOND-YEAR PROGRAM**

The second-year program is a continuation of the first year of training, with increased emphasis on the clinical treatment of patients and advanced concepts in prosthodontics. The resident is involved in teaching via patient treatment presentations and seminar moderating. Assigned patients are completed by the end of the second year.

### **Second-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 342 Advanced Clinic and Laboratory, Prosthodontics	1210
NPDS 372 Advanced Osseointegration	18
NPDS 371 Dental Administrative Management	12
NPDS 363 Dental Implantology, Patient Presentations	9
NPDS 311 Ethics	7
NPDS 344 Maxillofacial Prosthetics	26
NPDS 256 Nutrition	6
NPDS 345 Oral Boards II	6
NPDS 236 Oral Pathology	14
NPDS 347 Prosthodontics Conference, Guest Seminararians	40
NPDS 263 Research Methods I	10
NPDS 362 Seminar, Prosthodontics/Oral and Maxillofacial Surgery	6
NPDS 351 Seminar, Prosthodontic Literature	66
NPDS 352 Seminar, Prosthodontics/Periodontics	6
NPDS 292 Speech Pathology	4
NPDS 354 Teaching, Prosthodontics	10
NPDS 310 Teaching Methods Seminar	5
NPDS 356 Seminar, Treatment Planning	24
Feedback Session	1
GMT, PRT, etc.	95
<b>Total hours</b>	<b>1575</b>

## THIRD-YEAR PROGRAM

The primary focus of the third year is on increased complexity and intensity of clinical prosthodontics. Specific enhancement of diagnostic and treatment skills in implant prosthodontics, geriatric prosthodontics, maxillofacial prosthetics and practice management are emphasized. Additional teaching experience is gained by serving as a mentor during the Prosthodontics continuing education course and as mentors directing selected seminars topics for the comprehensive Dentistry Department. Prosthodontics research studies, if deemed appropriate, are submitted for competition and/or publication in refereed journals. Table clinics developed over a three-year period will be presented. The third year resident is encouraged to seek specific areas that they would like to concentrate their endeavors, and work more independently. Advanced implant cases and techniques will be emphasized.

### Third-Year Curriculum

<b>Course</b>	<b>Contact Hours</b>
NPDS 342 Advanced Clinic, Prosthodontics	1064
NPDS 372 Advanced Osseointegration	18
NPDS 349 Cleft Palate Conferences, Diagnosis and Treatment Planning	8
NPDS 363 Dental Implantology, Patient Presentations	9
NPDS 347 Prosthodontics Conference, Guest Seminararians	40
NPDS 420 Prosthodontic Oral Boards III	3
HSMP 215 Dentistry and the Law	30
HSMP 221 Strategic Management in Dentistry	30
NPDS 355 Research Methods II	5
NPDS 369 Research Project	150
NPDS 360 Seminar, Oral Medicine	10
NPDS 362 Seminar, Prosthodontics/Oral and Maxillofacial Surgery	3
NPDS 351 Seminar, Prosthodontic Literature	66
NPDS 352 Seminar, Prosthodontics/Periodontics	6
NPDS 356 Seminar, Treatment Planning	24
NPDS 354 Teaching, Prosthodontics	10
GMT, PRT, etc.	95
NPDS 321 Basic Life Support (Recertification)	4
Total hours	1575

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## **FELLOWSHIP PROGRAMS**

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### **FELLOWSHIP IN MAXILLOFACIAL PROSTHETICS**

Program Director: CDR William O. Wilson, Jr.

Pre-requisite: Completion of a previous postgraduate dental residency in Prosthodontics.

This program is designed to train the aspiring maxillofacial prosthodontist in the rehabilitation of patients with congenital or acquired head and neck defects. Resultant disabilities may range from minor cosmetic discrepancies to major functional compromises. Candidates will be exposed to a new arena of psychodynamic interactions requiring greater management skills and greater patient sensitivity. Working relationships in the hospital environment and the team approach to rehabilitative services with the other medical specialties will be emphasized. Areas of patient treatment will include acquired defects of the mandible and maxilla, palatopharyngeal function, radiation therapy, chemotherapy, and oculo-facial defects.

#### **Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 372 Advanced Osseointegration	18
NPDS 401 Cleft Palate Conference	21
NPDS 402 Consultant Lectures and Seminars	54
NPDS 403 Continuing Education Courses and Observerships	55
NPDS 404 Head and Neck Surgery Observership	**80
NPDS 405 Head and Neck Tumor Board	41
NPDS 400 Maxillofacial Clinical Prosthetics	838
NPDS 344 Maxillofacial Prosthetics	26
NPDS 410 Maxillofacial Prosthetics Laboratory Procedures	200
NPDS 407 Seminar, Maxillofacial Prosthetics Literature	120
NPDS 406 Seminar, Patient Presentation (Maxillofacial Prosthetics)	3
NPDS 292 Speech Pathology	4
NPDS 409 Teaching, Maxillofacial Prosthetics	20
Orientation, GMT, PRT, etc.	95
<b>Total hours</b>	<b>1575</b>

\*\*Course hours will vary depending on availability and type of patients.

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## FELLOWSHIP IN OROFACIAL PAIN

Program Director: Dr. John F. Johnson

Pre-requisite: Completion of a previous postgraduate dental residency of a minimum 2-year length.

Orofacial pain is the discipline involving the differential diagnosis and management of pain and dysfunction of the trigeminal nerve system. More specifically, orofacial pain practitioners evaluate and treat pain and dysfunction involving the masticatory system and associated structures throughout the face, head, neck and shoulders that transmit sensory information into the brain via the trigeminal nuclei.

The orofacial pain fellowship is a two-year program that covers an extensive body of basic medical sciences as related to the study of pain. Because of the inherent diversity of orofacial pain conditions, the fellowship incorporates clinically relevant information from a wide array of other dental and medical disciplines. The fellowship curriculum also includes courses that enhance a dental officer's abilities regarding contingency roles, military leadership and personnel management. Successful completion of the program qualifies the fellow to challenge the certification examination by the American Board of Orofacial Pain.

### FIRST-YEAR PROGRAM

The goal of the first-year program is to expose fellows to the foundational knowledge and skills that will enable them to participate in a multi-disciplinary pain practice. The first year program places a concentrated emphasis on acquiring the basic medical science information necessary to develop the theoretical constructs required for clinical practice. Fellows are exposed to a broad range of topics through classroom lectures, seminars and guest lectures. Fifty percent of the first year is devoted to clinical activities in the Orofacial Pain Center.

#### First-Year Curriculum

<b>Course</b>	<b>Contact Hours</b>
NPDS 201 Applied Dental Psychology	8
NPDS 273 Current Pain Literature Seminar I	30
NPDS 281 Forensic Dentistry	14
NPDS 218 Management of Medical Emergencies	2
Oral and Maxillofacial Pathology Continuing Education Course	32
NPDS 285 Orofacial Pain	32
NPDS 276 Orofacial Pain Concepts Seminar I	105
NPDS 278 Orofacial Pain Grand Rounds	30
NPDS 228 Pharmacotherapeutics in Clinical Dentistry	18
NPDS 263 Research Methods I (Advanced standing)	10
NPDS 264 Research Project	120
NPDS 217 Specialty Clinic, Orofacial Pain	1003
NPDS 231 Systemic Disease in Clinical Dentistry	24
NPDS 206 Topographical Anatomy (hours 13-20)	6
NPDS 311 Ethics	7
Feedback Sessions	4

Orientation, GMT, PRT, etc.	130
Total hours	1575

## **SECOND-YEAR PROGRAM**

The goal of the second-year program is to develop competency and proficiency in the fellow's multi-disciplinary diagnostic and pain management skills. Pertinent neuroscience, physiology, pharmacology and psychology topics are reinforced via seminars and guest lecturers. During the later half of the year, fellows will rotate through designated medical and surgical services at the Walter Reed National Military Medical Center Bethesda. Approximately 65 percent of the second year will be devoted to clinical activities in the Orofacial Pain Center and specialty rotations.

### **Second-Year Curriculum**

<b>Course</b>	<b>Contact Hours</b>
NPDS 321 Basic Life Support (Recertification)	4
NPDS 383 Orofacial Pain Specialty Rotations II	120
NPDS 355 Research Methods II	5
NPDS 369 Research Project	150
NPDS 381 Seminar, Current Pain Literature II	30
NPDS 360 Seminar, Oral Medicine	12
NPDS 376 Seminar, Orofacial Pain Concepts II	105
NPDS 382 Seminar, Orofacial Pain Grand Rounds II	30
NPDS 380 Seminar, Orofacial Pain Guest Lecture Series II	10
NPDS 340 Specialty Clinic, Orofacial Pain	1014
GMT, PRT, etc.	95
Total hours	1575

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## **COURSE DESCRIPTIONS**

The course descriptions are grouped under the following headings:

- Biomedical Sciences
- Comprehensive Dentistry
- Endodontics
- Military Dentistry
- Occlusion
- Operative Dentistry
- Oral Diagnosis, Oral Medicine, and Oral and Maxillofacial Radiology
- Oral and Maxillofacial Pathology
- Oral and Maxillofacial Surgery
- Orofacial Pain
- Orthodontics
- Pediatric Dentistry
- Periodontics
- Prosthodontics
- Related Topics
- Research

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## **BIOMEDICAL SCIENCES**

Faculty: CDR W. Wilson, Dr. Gradwell, Dr. Chellaiah Dr. Falkler, Dr. Minah, staff

### **NPDS 201 Applied Dental Psychology**

Emphasis is placed on enhancing the residents' appreciation of the biopsychosocial complexities of their patients in an effort to demonstrate how these factors impact prevention, diagnosis, treatment, and rehabilitation. Empirical reports and clinical findings will be presented which highlight a variety of psychological issues which are directly related to oral health and oral healthcare delivery. Among the psychological entities discussed are: dental phobia, pain management, depression, anxiety, patient adherence, and practitioner- patient communication. In addition, seminar material will also focus on managing professional stress and burnout.

### **NPDS 202 Biochemistry**

This course will review general biochemical principles and discuss the biochemical basis of current dental topics.

### **NPDS 203 Immunology**

This course will stress basic and advanced immunologic concepts as they relate to the etiology and host defense of infectious dental disease. Information will be provided on current concepts in innate immunity, antigens, the cells involved in innate and acquired immune responses, the complement system, hypersensitivity, autoimmunity, immunodeficiency, and the regulation of the immune response. This information will provide the resident with an understanding and rationale for the treatment of oral health and immune-related diseases.

### **NPDS 204 Microbiology**

Information is presented on the current status of bacterial physiology, growth and genetics of microorganisms, viruses of dental importance, host-parasite relationships, and sterilization and disinfection. Particular emphasis is placed on the microbial flora of the oral cavity and on its relationship to dental plaque and caries, orofacial infections, pulp and periapical infections, and dental plaque and periodontal disease.

### **NPDS 206 Topographical Anatomy**

This is a lecture and laboratory course designed to review the anatomy of the head and neck region. The primary objective is to provide the participants with a knowledge base that strengthens their clinical judgment. Following preparatory lectures, participants will construct in wax on an anatomical skull the ligaments of the temporomandibular joint (TMJ), muscles of mastication, muscles of facial expression, muscles of the soft palate and pharynx, muscles of the floor of the mouth, major salivary glands and selected vascular and neural structures. This exercise should help participants better understand the relationships of various tissue planes, muscle locations, and the interrelationships of the gross anatomy of the head and neck region. The final element of the course involves dissection of fresh anatomic material at the USUHS Anatomical Training Laboratory following the same topics and objectives of the lecture and waxing laboratory segments. Emphasis will be placed on examination and understanding of the temporomandibular joint.

### **NPDS 377 Immunology Review**

The basics of immunology will be presented by lecture and discussion.

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## **COMPREHENSIVE DENTISTRY**

Faculty: CAPT Miksch, CAPT Arena, CAPT Molinaro, CDR Rudmann, NPDS staff

### **NPDS 217 Specialty Clinic, Comprehensive Dentistry**

Clinical application of all phases of dentistry as practiced in the Navy in an integrated fashion and at a high level of competence.

### **NPDS 220 Seminar of Restorative Dentistry**

Various guest lecturers and consultant visits are scheduled throughout the year.

### **NPDS 253 Fixed Prosthodontics**

Lectures, demonstrations, and laboratory sessions will cover clinical and laboratory phases of fixed prosthodontics. Residents will be exposed to all phases of patient treatment in fixed prosthodontics from diagnosis and treatment planning to cementation.

### **NPDS 262 Informal Treatment Planning Seminar**

Each resident will present two selected cases per year before the comprehensive dentistry staff and fellow residents. In a round table setting, the resident will discuss a diagnosis, proposed treatment plan, and treatment rationale.

### **NPDS 279 Seminar, Operative Dentistry**

Residents prepare abstracts and discuss articles from the operative dentistry literature. NPDS staff members serve as mentors for these seminars. The development of critical thinking is encouraged and developed through structured exercises in scientific and statistical analysis of selected articles.

**NPDS 286 Seminar, Diagnosis, Treatment Planning, and Preclinical Occlusion,**

This seminar is directed toward demonstrating to the resident the treatment planning formats used in the Comprehensive Dentistry Residency, and to help them develop a logical and systematic approach to diagnosing and treatment planning the patient requiring multi-disciplinary comprehensive dental care. Treatment planning exercises are included to allow immediate practical application of the learned skills."

**NPDS 288 General Dentistry Sick Call Rotation**

This clinical rotation provides an opportunity for comprehensive dentistry residents to gain expertise and demonstrate competence in the following areas of general dentistry sick call: diagnosis, treatment planning, and definitive treatment for general dentistry sick call patients from the Dental Readiness clinic. The rotation consists of 32 hours.

**NPDS 312 Seminar, Orthodontics**

Topics in orthodontics, which focus on concepts and mechanics of minor tooth movement, are covered in lectures and literature review seminars.

**NPDS 315 Pediatric Dentistry Rotation**

This clinical rotation provides an opportunity for comprehensive dentistry residents to gain expertise and demonstrate competence in the following areas of pediatric dentistry: diagnosis and treatment planning for infant and child patients; basic restorative dentistry to include amalgams, composites, stainless steel crowns, and preventive resin restorations; behavior management and patient/parent communication; pulp therapy for the primary and young permanent dentition; space maintenance; current preventive dentistry techniques; and interceptive orthodontics. The rotation includes 5 full days of directly supervised practice in the Pediatric Dentistry Clinic. During the assigned days, comprehensive exams and treatment plans are initiated and it is the resident's responsibility to follow the assigned cases to completion. The goals of the treatment cases are to give the resident a well-rounded experience in the practice of pediatric dentistry. The resident will complete 3 to 5 restorative cases and available interceptive orthodontic/space maintenance cases. Care provided through this rotation will be mentored by the Chairman of the Pediatric Dentistry Department at NPDS.

**NPDS 317 Seminar, Occlusion**

Residents discuss assigned readings on articulators and the fundamentals of occlusion. The emphasis is on direct clinical applications, and the discussions are supplemented by clinical cases.

**NPDS 318 Seminar of Restorative Dentistry**

Various guest lecturers and consultant visits are scheduled throughout the year.

**NPDS 319 Specialty Clinic, Comprehensive Dentistry**

Continuation of NPDS 217

**NPDS 320 Teaching, Comprehensive Dentistry**

Each resident participates in the teaching program by preparing and presenting various presentations and a table clinic.

**NPDS 323 Orofacial Pain Rotation**

The comprehensive dentistry residents rotate for 3 AM sessions for a total of 12 hours through the Orofacial Pain department under the direct supervision of an orofacial pain staff mentor. During the

assigned days, comprehensive orofacial exams and treatment plans are initiated and it is the resident's responsibility to follow the assigned cases to completion. The goals of the treatment cases are to give the resident a well-rounded experience in the diagnosis and treatment of orofacial pain. The resident will complete two assigned orofacial cases. Care provided through this rotation will be mentored by the Staff of the Orofacial Pain department at NPDS.

#### **NPDS 324 General Dentistry Sick Call Rotation**

This clinical rotation provides an opportunity for comprehensive dentistry residents to gain expertise and demonstrate competence in the following areas of general dentistry sick call: diagnosis, treatment planning, and definitive treatment for general dentistry sick call patients from the Dental Readiness clinic. The rotation consists of 72 hours.

#### **NPDS 325 Seminar, Periodontics**

Residents prepare abstracts and discuss assigned articles from the periodontic literature. NPDS periodontal staff members serve as mentors for these seminars, which are chaired by the residents.

#### **NPDS 353 Treatment Rendered Seminar**

Residents prepare and orally present summaries of clinical treatment accomplished, highlighting significant teaching points gained during their residency training. NPDS staff members serve as mentors for these seminars. Seminars are presented in operative dentistry, orthodontics, pediatric dentistry, periodontics, and comprehensive dentistry.

#### **NPDS 358 Seminar, Orofacial Pain**

Literature seminars reviewing and discussing the etiology, diagnosis, and conservative nonsurgical management of temporomandibular disorders and orofacial pain.

#### **NPDS 359 Seminar, Prosthodontics**

Residents prepare abstracts and discuss assigned articles from the prosthodontic literature. NPDS prosthodontic staff members serve as mentors for these seminars, which are chaired by the residents.

#### **NPDS 365 Seminar, Comprehensive Dentistry**

This seminar requires the resident to integrate and apply the didactic material learned to treatment situations. Alternative teaching methods such as demonstrations of techniques by faculty and dental company representatives, lessons learned, clinical exercises, current literature review, seminars developed by the residents, and presentation of treatment plans will be used.

#### **NPDS 367 Seminar, Comprehensive Dentistry ABGD Board Preparation**

This seminar is a review of current topics in all specialties relating to the ABGD Board Exam.

#### **NPDS 368 Seminar, Comprehensive Dentistry ABGD Board Examination**

Three separate examinations given over the 2-year period consist of a written treatment-planning exercise, an oral examination, and a written examination. The examination is analogous to the American Board of General Dentistry.

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### **ENDODONTICS**

Faculty: CAPT Webb, COL McNally, LCDR Hinman

**NPDS 208 Endodontics**

Classroom and laboratory instruction, as well as clinical experience, in all phases of endodontics. Emphasis on the etiology, prevention, diagnosis, and treatment of diseases and injuries that affect the pulp and the periradicular tissues.

**NPDS 207 Laboratory, Surgical Anatomy**

A laboratory course at USU in which the residents utilizes surgical techniques and performs endodontic surgery under simulated conditions. Dental operating microscope principles, ultrasonic root end preparation techniques and current root end filling materials are emphasized.

**NPDS 209 Laboratory, Endodontic Technique**

First year resident laboratory course designed to develop proficiency in a variety of endodontic instrumentation and obturation techniques before the resident applies them in the clinical situation.

**NPDS 210 Laboratory, Pulp Morphology**

First year resident laboratory course designed to acquaint the resident with the many anatomical variations found in the pulp chamber and the root canal system of each type of tooth.

**NPDS 211 Seminar, Clinical Endodontics/Presurgical Conference**

Case presentations of first- and second-year residents are evaluated by the faculty. Challenging cases in diagnosis, case selection, and treatment are presented, defended, and evaluated. Special reports on endodontics and endodontically related subjects are presented, reviewed, and discussed.

**NPDS 212 Seminar, Endodontics Consultant Series**

Seminars are designed to familiarize the resident with a variety of endodontic techniques and philosophies. Prominent educators, researchers, and clinicians are invited to participate in these seminars.

**NPDS 214 Seminar, Classical Endodontic Literature**

Seminars for review and discussion of the literature on endodontics and related subjects. Research findings as well as basic health sciences are correlated with clinical endodontics through extensive discussion.

**NPDS 215 Seminar, Endodontics/Related Specialties**

Topics of common interest to endodontics and the specialties of prosthodontics, operative dentistry, orthodontics, and periodontics, are assigned to residents, who must develop and lead discussions on the topics.

**NPDS 216 Specialty Clinic, Endodontics**

Designed to provide extensive clinical experience on a specialty level for residents in endodontics. Emphasis is placed on the application of recent advancements and innovations in clinical endodontics as well as on the treatment of unusual and challenging cases. An introduction to endodontic surgery is initiated, with cases gradually increasing in complexity.

**NPDS 265 Seminar, Current Endodontic Literature**

A seminar designed to identify trends in endodontic research and clinical practice and to develop skills in evaluating published material. Articles from current journals are read, analyzed, abstracted, and discussed.

**NPDS 300 Endodontic Biology Review**

This 3-day course, sponsored by Einstein Medical Center, Philadelphia, Pennsylvania, is a review of the biology of endodontics. Areas covered include microbiology, pathology, cell biology, pulpal physiology, odontogenic infections, and applied pharmacology. The lectures are based on classical and current literature.

**NPDS 301 Rotation through Walter Reed National Military Medical Center Bethesda**

Rotation through Endocrinology, Infectious Diseases, ENT, and the Orofacial Pain Clinics is designed to increase the endodontic resident's competency in physical evaluation, diagnosis, and management of patients with medical complications.

**NPDS 302 Seminar, Clinical Endodontics/Presurgical Conference**

Continuation of NPDS 211.

**NPDS 303 Seminar, Classical Endodontics Literature**

Continuation of NPDS 214.

**NPDS 304 Seminar, Endodontics/Related Specialties**

Continuation of NPDS 215.

**NPDS 305 Specialty Clinic, Endodontics**

Second year of clinical training in endodontics. Provides a diversity of surgical and nonsurgical clinical experience, with emphasis on the treatment of challenging and unusual cases. Applications of recent developments and innovations in clinical endodontics are also emphasized.

**NPDS 306 Seminar, Endodontics Consultant Series**

Continuation of NPDS 212.

**NPDS 308 Teaching, Endodontics**

The resident participates in the endodontic teaching program by presenting lectures and table clinics, leading seminars, and instructing in the clinic and the laboratory.

**NPDS 309 Laboratory, Surgical Anatomy**

Continuation of NPDS 207. Second year residents assume teaching responsibilities and mentor first year endodontics residents and comprehensive dentistry residents in performing endodontic surgical procedures.

**NPDS 364 Seminar, Current Endodontics Literature**

Continuation of NPDS 265

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**MILITARY DENTISTRY**

Faculty: CAPT Meehan, CAPT Munro, CAPT Reeg, CDR Stokes, NPDS staff

**NPDS 218 Management of Medical Emergencies/BLS**

This course covers the diagnosis and management of common medical emergencies, with special emphasis on patient evaluation and history taking to prevent such emergencies in the dental office. Additionally, the residents participate in an American Heart Association Basic Life Support class.

### **NPDS 221 Naval Operations Management**

This course examines various aspects of managing a dental health care facility in the Navy Dental Corps. It includes lectures and field trips designed to familiarize the residents with Navy and Marine Corps force structure and management. Military responsibilities of the dental officer in operational billets are covered.

### **NPDS 281 Forensic Dentistry**

This course will provide an understanding of mass disaster management and methodologies that can assist the examiner rendering dental identification. The course includes formal lectures, a radiographic comparison laboratory, and a mass casualty laboratory. These laboratories provide hands-on participation to test the student's skill in mass disaster management and identification of human remains.

### **NPDS 321 Basic Life Support (Recertification)**

A review course in CPR for second-year residents. The residents participate in an American Heart Association Basic Life Support class.

### **NPDS 371 Dental Administration Management**

This course is an introduction to the theory and practice of management as applied to the Navy's health care delivery system. Lectures and simulated exercises are directed toward improving the dental officer's management skill and decision-making ability to prepare the officer for increased responsibility.

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## **OCCLUSION**

Faculty: CAPT Ellert

### **NPDS 224 Occlusion**

Clinically oriented presentations will focus on the application of occlusal concepts, principles of articulation, determinants of mandibular movement, and occlusal assessment. Emphasis will be placed on occlusion and the periodontium. Selected course participants will review the theory and use of dental articulators, including hands-on familiarization. Indications and principles of occlusal equilibration are discussed and applied in a laboratory exercise. Occlusal assessments/evaluations are conducted on selected patients.

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## **OPERATIVE DENTISTRY**

Faculty: CAPT Kooistra

### **NPDS 225 Operative Dentistry**

This course is designed to review the art and science of operative dentistry through lectures and hands-on laboratory exercises. Disease prevention and conservation of tooth structure are the basis of our treatment philosophy. The treatment of dental caries as an infectious disease is emphasized through the discussion of state-of-the-art caries prevention and management strategies. Currently available restorative materials are detailed including rationale for selection and manipulation techniques. Treatment planning, conservative restorative methods and the restoration of structurally compromised teeth are discussed. Esthetic/cosmetic dentistry modalities, e.g., bleaching, DBAs (dental bonding agents), esthetic posterior restorations, and porcelain veneers/porcelain systems are presented. Our goal is to provide participants with tools to enhance clinical success when restoring

the carious, defective, or traumatically injured dentition. This course encourages the development of sound clinical rationales when providing operative dentistry as part of an overall comprehensive treatment plan.

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## **ORAL DIAGNOSIS, ORAL MEDICINE, AND ORAL AND MAXILLOFACIAL RADIOLOGY**

Faculty: CDR Monasky

### **NPDS 226 Oral Medicine Seminar Series for AEGD/GPR**

This course is a review of several important oral medicine and clinical oral pathology topics of interest to the PGY-1 dental resident. Topics include: radiology troubleshooting, new radiation protection requirements, diagnosis and management of common oral lesions and conditions, oral manifestations of systemic disease, top 50 drugs, pharmacology review, referral and consultations, adjunctive diagnostic procedures, and laboratory medicine in dentistry.

### **NPDS 227 Advanced Oral Diagnosis**

Lectures and clinicopathological conferences designed to examine the skills essential for the collection of diagnostic data in a systematic and logical fashion. Special emphasis will be placed on (1) eliciting medical and dental histories, with a review of the organ systems, (2) physical diagnoses and head and neck examination, (3) indications for, limitations of, and interpretation of radiographic evaluations, (4) medical consultations, and (5) radiation safety. The resident will learn to synthesize the data obtained and, consequently, establish a diagnosis for the patient's chief complaint, determine the significance of preexisting medical conditions, discover concomitant disease, and formulate a treatment plan based on an accurate determination of the patient's physical and emotional capacity to tolerate dental care.

### **NPDS 228 Pharmacotherapeutics in Clinical Dentistry**

Lectures and clinic pathological conferences designed to present the pharmacokinetics and pharmacodynamics of major drug groups, with particular reference to clinical dentistry. Topics of discussion will include (1) pharmacokinetics (absorption, distribution, biotransformation, and excretion) of drugs, (2) sedative and hypnotic agents, (3) minor tranquilizers and centrally acting muscle relaxants, (4) peripherally and centrally-acting analgesics, (5) local anesthetics, (6) antimicrobials, and (7) therapeutic agents recommended for management of common oral diseases. Further emphasis will be placed on the potential interaction of drugs with medications prescribed by other health professionals. Participants will be prepared to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.

### **NPDS 231 Systemic Disease in Clinical Dentistry**

This course is a comprehensive presentation of the dental management of medically compromised patients. The medical and/or pharmacologic management of systemic disease is discussed, and the basis for modification of dental therapy is highlighted. The resident will acquire knowledge essential for assessing a patient's ability to undergo dental care based on the recorded medical history and the correlation of significant clinical, laboratory, and radiographic findings. Clinicopathological conferences are designed to review the normal physiology of organ systems, incidence of significant variation, and the pathophysiology of disease states of special interest to the dentist. Emphasis will be directed towards the management of the adult patient.

**NPDS 284 Oral Medicine/Clinical Oral Diagnosis** (for oral pathology residents)

Clinical practice designed to reinforce diagnostic and patient management skills. Special emphasis will be placed on (1) eliciting a complete medical and dental history, (2) physical examination, (3) radiographic interpretation, (4) ordering appropriate laboratory studies, (5) performing diagnostic tests, (6) synthesizing a differential diagnosis, and (7) developing an effective treatment plan. The resident will develop an appreciation for the relationship between clinical presentation and microscopic appearance and gain experience in the dental management of patients with serious and complex medical problems.

**NPDS 360 Seminar, Oral Medicine**

Seminars and clinicopathological conferences for residents in specialties other than oral medicine are designed to discuss advanced principles in the diagnosis and management of medically compromised patients. A practical, case-study approach is used to emphasize important principles of comprehensive care required in both general and specialty dental practice.

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**ORAL AND MAXILLOFACIAL PATHOLOGY**

Faculty: CAPT Foss, COL Fielding, CDR Stokes

**NPDS 232 Seminar, Surgical Oral and Maxillofacial Pathology**

Weekly microscopic slide seminar at which the resident is responsible for the diagnosis of histopathologic slides and for a detailed discussion of the clinical characteristics, treatment, and prognosis of the diseases represented by each slide.

**NPDS 234 Advanced Oral and Maxillofacial Pathology I**

Resident functions as an essential member of the Navy Oral Histopathology Service. Learns microscopic techniques, tissue processing, and staining methods. Prepares the gross descriptions of assigned cases, which are reviewed by a staff member and discussed with the resident. Performs the initial screening of cytology specimens. Gains experience in clinical pathology by examining patients.

**NPDS 235 Advanced Oral and Maxillofacial Pathology II**

Continuation of NPDS 234. The resident participates in lecturing and conducting seminars for specialty residents and prepares microscopic descriptions of assigned biopsy specimens, which are reviewed and discussed with staff members. Participates in review of oral and maxillofacial pathology literature. Advanced cases in head and neck pathology are reviewed on a daily basis.

**NPDS 236 Oral and Maxillofacial Pathology**

Lecture series covering developmental disturbances of the head and neck, inflammatory diseases of the oral mucosa and jaws, epithelial dysplasia, pulp and periapical pathology, benign and malignant neoplasms, and the oral manifestations of certain metabolic diseases. Emphasis is placed on the clinical manifestations of specific diseases; however, the student is expected to correlate microscopic findings with specific diseases to better understand the clinical behavior, prognosis, and treatment modalities. Guest lecturers are often added to the curriculum.

**NPDS 237 Seminar, Special Pathology**

Resident participates in the Walter Reed National Military Medical Center Bethesda, Tumor Board conferences, clinicopathologic conferences presented in conjunction with the General Pathology Department, autopsy conferences, and regularly scheduled conferences of the Dermatology,

Otorhinolaryngology, and Radiology Services. Participates in review of oral and maxillofacial pathology literature through assigned topics.

### **NPDS 250 Independent Study in Special Topics**

This course is designed to allow residents to direct their study by providing the opportunity for additional emphasis on clinical practice or histopathologic practice. At the discretion of the program director, residents desiring clinical practice would consider adding NPDS 233 Current Concepts in Oral Medicine or NPDS 327 Clinical Oral Diagnosis/Oral Medicine II. Residents interested in histopathology would add additional hours in NPDS 237 Seminar, Special Pathology or NPDS 235 Advanced Oral and Maxillofacial Pathology II. Additional considerations for clinical or histopathology may be arranged with the consent of the program director and the participating department in otolaryngology, oral medicine, dermatology, immunohistochemistry, cytology, hematology, or other fields of interest.

### **NPDS 274 General Pathology**

Lectures and clinicopathological seminars at the F. Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences. Part I of the course familiarizes the student with general concepts in histopathology. In Part II, the student studies the gross pathology and histopathology of each organ system.

### **NPDS 275 Immunopathology**

This course presents basic immunology concepts and recent advances in immunology as relates to the practice of pathology. It will be presented in a variety of formats, including pretaped lectures, seminars, and laboratory experiences. The laboratory portion of the course will offer experience in immunofluorescence and immunoperoxidase techniques with emphasis on application in the diagnosis of pathologic disease processes.

### **NPDS 289 Seminar, Special Clinical Oral and Maxillofacial Pathology Topics**

This bi-weekly seminar allows the oral pathology resident an opportunity to incorporate into a formal presentation mode the clinical, laboratory, and microscopic aspects of a narrow focus of diseases. During this seminar, the resident will be able to focus on the advanced principles of clinical diagnosis and treatment with the occasional implementation of a problem based approach. During these seminars, the resident will also gain valuable experience by directing a seminar and constructing a formal presentation.

### **NPDS 290 Introduction to Basic Histopathology Techniques, Special Procedures, and Laboratory Management**

This course will provide the oral and maxillofacial pathology resident with experience in basic histopathologic procedures, including the processing, sectioning, and staining of submitted tissue specimens. The resident will become familiar with the basic operation and programming of the tissue processor and use of the embedding station and the microtome. Preparation of staining solutions and theoretical chemical interactions with tissue components will be reviewed. Routine and selected special histochemical stains and several immunohistochemical procedures will be performed. Procedures employed for frozen sections will also be introduced.

### **NPDS 307 Seminar, Endodontic Surgical Oral Pathology**

A monthly microscopic slide seminar with clinical pathologic correlation at which the resident is responsible for the diagnosis of 5 histopathologic slides and for a detailed discussion of the clinical characteristics, treatment and prognosis of the disease represented by each slide.

### **NPDS 331 Seminar, Clinical Oral and Maxillofacial Pathology**

Monthly conference at which clinical color slides are projected. Residents are provided with pertinent clinical and laboratory data on each case as they request it in order to arrive at a diagnosis.

### **NPDS 332 Seminar, Periodontic Surgical Oral and Maxillofacial Pathology**

Monthly microscopic slide seminar at which the resident is responsible for the diagnosis of histopathologic slides and for a detailed discussion of the clinical characteristics, treatment, and prognosis of the diseases represented by each slide.

### **NPDS 361 Seminar, Advanced Surgical Oral and Maxillofacial Pathology**

Residents participate in a weekly seminar within the Oral and Maxillofacial Pathology Department during which difficult surgical cases are reviewed and discussed with the staff members. Morphologically challenging cases are drawn from exchange sets from other oral and maxillofacial pathology training programs, from the Registry of Oral and Maxillofacial Pathology, from personal collections, and from other sources.

### **NPDS 326 Oral and Maxillofacial Pathology Short Course**

This course will provide a review and update of the local and systemic diseases that affect the oral and maxillofacial tissues. The etiology, pathogenesis, clinical and radiographic appearance, treatment, and histopathology of these diseases will be discussed. Emphasis will be given to the development of a meaningful clinical differential diagnosis and effective two-way communication between the clinician and oral and maxillofacial pathologist. This course covers the five major categories of disease: developmental, inflammatory, metabolic, neoplastic, and infectious. Several of the many topics that will be discussed include odontogenic cysts and tumors, infectious and granulomatous disease, syndromes of the head and neck, salivary gland disease, oral premalignancy and carcinoma, and fibro-osseous lesions of the head and neck. The class participants will participate in at least two clinicopathologic sessions. During these conferences, cases from the different categories of disease will be presented and informally discussed. Associated topics may include bone neoplasms, pigmented and vascular lesions as well as how systemic diseases can affect the oral cavity. Additional emphasis, when appropriate, will be placed on adjunctive special laboratory studies, biopsy technique, histopathology, and rationale used to arrive at a final diagnosis.

### **NPDS 394 General Pathology Rotations**

This second year curriculum is comprised of 12 months of assigned rotations in general pathology at the Walter Reed National Military Medical Center Bethesda, and the State of Maryland Medical Examiner's office, Baltimore, Maryland. Residents will participate in the gross and microscopic examination of surgical specimens, and obtain experience in clinical pathology, hematopathology, cytopathology, and dermatopathology and soft tissue pathology. A minimum rotation of 6 months in surgical pathology is required. The resident will also obtain experience with autopsy techniques and will act as a prosector in a minimum of 20 autopsies. The residents will actively participate in the continuing education program offered by the medical pathology staff and are encouraged to present head and neck seminar cases during their year-long rotation.

### **NPDS 494 Joint Pathology Center Rotation**

This third-year curriculum consists of a 12 month assignment to the Department of Oral and Maxillofacial Pathology, Joint Pathology Center, Washington, DC. The JPC acts as a consultation center for pathologists throughout the world. Therefore, this year of training provides the opportunity to study the most unusual and interesting disease processes that occur in, but are not limited to, the head

and neck region. Normally, an opportunity to conduct a retrospective study on one or more of these diseases, leading to a scientific publication, is provided and highly encouraged.

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## **ORAL AND MAXILLOFACIAL SURGERY**

Faculty: CAPT Reeg

### **NPDS 239 Oral and Maxillofacial Surgery**

This course provides an overview of the specialty of Oral and Maxillofacial Surgery with emphasis on the practical approach to outpatient management. The resident is familiarized with the treatment of maxillofacial pathology, infections, maxillofacial trauma, and reconstructive and preprosthetic surgical procedures. The principles of patient evaluation and minor dentoalveolar surgery are reviewed so that the resident can incorporate these principles into sound treatment planning and clinical practice. Emphasis is placed on the treatment of normal surgical sequela and the prevention and treatment of potential complications. The treatment of maxillofacial trauma is covered including stabilization, fixation, and suturing techniques in hands-on laboratories.

### **NPDS 314 Oral and Maxillofacial Surgery Rotation**

The second-year residents rotate for 12 days in the Oral and Maxillofacial Surgery Department under the direct supervision of an oral and maxillofacial surgeon. During this rotation, they perform minor oral surgical procedures including removal of erupted and nonrestorable teeth, surgical removal of erupted and unerupted teeth, and post-operative care including complications. In addition, the resident may assist the oral and maxillofacial surgeon with biopsy of bony and soft tissue lesions, intravenous sedation, endosseous implant placement, and bone graft surgery. Evaluation and treatment of the medically compromised patient is stressed. The resident may also have the opportunity to participate as a surgical assistant in major oral and maxillofacial surgical procedures (i.e., maxillofacial fractures, orthognathic surgery, preprosthetic surgery, treatment of oral and maxillofacial pathology, and reconstructive oral surgery) carried out in the main operating room.

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## **OROFACIAL PAIN**

Faculty: CDR Hartgitai, CAPT Mazzeo, Dr. Johnson

### **NPDS 219 Specialty Clinic, Orofacial Pain**

Specialty Clinic provides the opportunity for residents to learn how to clinically apply information taught in the classroom. By participating in a variety of patient care experiences through the Orofacial Pain Center, residents will develop expertise in using multidisciplinary protocols to evaluate and manage orofacial pain conditions.

### **NPDS 273 Current Pain Literature Seminar I**

The seminar consists of weekly 1-hour reviews of current basic science and clinical articles relating to pain. Specifically the seminar is designed to provide residents with an appreciation of contemporary topics in pain science and to develop their ability to critically evaluate literature.

### **NPDS 276 Orofacial Pain Concepts Seminar I**

This course consists of a 10-month series of seminars that establish the theoretical basis for contemporary orofacial pain practice. The seminars closely examine the pathophysiologic mechanisms of pain and present clinically relevant principles of pain evaluation, diagnosis and management. The

unique considerations of pain involving the trigeminal nerve system are emphasized.

### **NPDS 278 Orofacial Pain Grand Rounds I**

Clinical cases and special reports on pain related topics are presented and reviewed by residents and faculty. Interesting or challenging patient evaluations, diagnoses and management protocols are discussed in a collegial fashion. The seminar is designed to serve as both a resident learning experience and as a performance improvement and evaluation tool.

### **NPDS 285 Orofacial Pain**

This advanced course will provide residents with practical guidelines for the assessment, diagnosis, and conservative nonsurgical management of patients with orofacial pain and temporomandibular (TM) disorders. A problem-based learning format will be used with lectures, demonstrations, and clinical and laboratory exercises to provide background etiologic, diagnostic, and therapeutic information. Emphasis is placed on understanding the physiologic disturbances that characterize pain, and differentiating between pain and dysfunction caused by muscle disorders, neurophatic diagnoses, and those caused by TM joint pathology or other causes of orofacial pain. Participants will concentrate on how Physical Self-Regulation, intraoral orthotic therapy, pharmacology and psychology are integrated into a comprehensive approach to orofacial pain management. Participants will fabricate and deliver a muscle-relaxation splint and learn the techniques of Physical Self-Regulation.

### **NPDS 366 Specialty Clinic, Orofacial Pain**

Continuation of NPDS 219.

### **NPDS 376 Orofacial Pain Concepts Seminar II**

Continuation of NPDS 276.

### **NPDS 381 Current Pain Literature Seminar II**

Continuation of NPDS 273. Second year residents assume increased roles in presenting and reviewing contemporary pain literature.

### **NPDS 382 Orofacial Pain Grand Rounds II**

Continuation of NPDS 278. Second year residents assume increased roles in presenting and analyzing clinical cases, and in discussing performance improvement and evaluation opportunities within a multi-disciplinary pain practice.

### **NPDS 383 Orofacial Pain Specialty Rotations**

Residents will rotate through various medical specialty departments at the Walter Reed National Military Medical Center Bethesda. Rotations are designed to broaden the resident's overall knowledge and clinical experiences, and to increase competency regarding multi-disciplinary patient evaluation, diagnosis and management.

### **NPDS 440 Specialty Clinic, Orofacial Pain**

Continuation of NPDS 340.

### **NPDS 476 Orofacial Pain Concepts Seminar III**

Continuation of NPDS 376.

### **NPDS 481 Current Pain Literature Seminar III**

Continuation of NPDS 381. Third year residents assume roles in selecting and critiquing contemporary pain literature.

### **NPDS 482 Orofacial Pain Grand Rounds III**

Continuation of NPDS 382. Third year residents assume roles in selecting, presenting and critiquing clinical cases, and in leading discussions regarding performance improvement and evaluation opportunities within a multi-disciplinary pain practice.

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## **ORTHODONTICS**

Faculty: CDR Stefanos

### **NPDS 240 Orthodontics**

This course is designed to enhance the resident dental officer's knowledge of development of the dentition, normal eruption, developmental problems, and fixed and removable appliance design for minor tooth movement. Didactic presentations and laboratory exercises will provide the background information that will enable the interested dental officer to diagnose and treat both interceptive and limited minor tooth movement cases, including root extrusion, molar uprighting, and pre-restorative esthetic considerations. A wide variety of clinical cases are assigned for diagnosis and treatment over the course of each resident's program.

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## **PEDIATRIC DENTISTRY**

Faculty: CDR Rajaei

### **NPDS 222 Pediatric Dentistry**

This course is an introduction to the background, current principles, philosophies, and treatment strategies unique to the practice of pediatric dentistry. Emphasis will be directed towards (1) prevention of dental disease; (2) rationale and protocols for both infant and child dental examinations; (3) understanding and effectively managing the behavioral aspects of the dentist-patient-parent triad; (4) pediatric restorative dentistry; (5) implementing appropriate space maintenance therapy, including a laboratory exercise on fabrication of fixed space maintenance appliances; and (6) interceptive orthodontics from a pediatric dentistry perspective.

### **NPDS 249 Anxiolysis**

This course will review the didactic material associated with using nitrous oxide/oxygen inhalation sedation. Following the CODA Guidelines for the teaching of conscious sedation, the participants will review the spectrum of sedation and respiratory anatomy and physiology. With a sound background in the pharmacology, indications, contraindications, and management of complications, the participants will gain hands-on experience using nitrous oxide and oxygen in the clinic. The safety of the work environment for these inhalation agents will also be addressed.

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## **PERIODONTICS**

Faculty: CAPT Mumford, CAPT Getka, CDR John H. Wilson, CDR Miller, LCDR Turner

### **NPDS 200 Moderate Sedation and Analgesia**

This course complies with the ADA guidelines for the teaching of pain control and moderate conscious sedation. A review of the medical history, appropriate sedation monitors, management of medical emergencies and strategies for pain and anxiety management will be discussed. The course is repeated during the second year. Twenty sedation cases will be completed under direct supervision. Upon completion of this course the student will be able to become moderate conscious sedation certified.

### **NPDS 213 Seminar, Pediatric Dentistry**

This seminar, conducted by a trained pediatric dentist, will present information on issues that affect the diagnoses and periodontal treatment of pediatric patients.

### **NPDS 238 Seminar, Board Case Presentation (Periodontics)**

At the end of the school year, each resident submits, presents, and defends one completely documented case report following the current format and requirements set forth by the American Board of Periodontology.

### **NPDS 241 Periodontics**

Lectures, laboratory exercises, and case presentations covering principles of diagnosis, prognosis, and treatment of periodontal disease. This course will enable the resident to diagnose and treat patients with periodontal disease and help prevent disease according to current concepts of scientific principles and knowledge concerning etiology, pathogenesis, patient management, prevention, and systemic implications.

### **NPDS 242 Mineralized Tissue Biology**

This course is designed to review mineralized tissue biology relevant to the dental resident's appreciation of the bone/dental activity during various clinical therapies.

### **NPDS 243 Seminar, Current Periodontics Literature**

This seminar augments NPDS 245. The periodontics residents review and discuss recently published articles in the periodontics literature.

### **NPDS 245 Seminar, Periodontal Classic Literature**

A weekly 3-hour literature review from August to June on selected topics designed to provide the resident with the ability to critically evaluate the pertinent literature and communicate effectively with dental colleagues and other health professionals. Guest seminarians from other institutions occasionally present lectures or lead discussions in their area of expertise.

### **NPDS 246 Seminar, Periodontics/Prosthodontics**

Clinical case presentation seminars are presented by residents from the Periodontics and Prosthodontics Departments. Therapy rendered by both disciplines is planned and coordinated through group discussions under the guidance of clinically experienced staff members.

### **NPDS 247 Seminar, Orthodontics**

Topics in Orthodontics which cover concepts and mechanics of minor tooth movement and their relationship with the practice of periodontics are covered utilizing lectures, videos, demonstrations, seminars, and laboratory exercises.

### **NPDS 248 Specialty Clinic, Periodontics**

Clinical experience emphasizing all phases of periodontal therapy, including but not limited to,

regenerative surgical therapy and dental implants.

**NPDS 268 Surgical Anatomy Seminar and Laboratory**

Residents and staff review current literature about advanced surgical techniques. Topics primarily include the harvesting of intraoral bone (i.e., ramus/chin harvests) and implant placement (sinus lifts/nerve repositioning). Following this seminar, participants spend 1 day in the anatomy laboratory of the Uniformed Services University of the Health Sciences performing these techniques on cadaver specimens.

**NPDS 270 Critically Assessed Topics in Periodontics**

Residents choose two focused questions per academic year utilizing the PICO format, perform a focused literature search develop an evidence based answer to clinical decision points.

**NPDS 277 Seminar, Current Periodontal Topics**

A weekly 3-hour seminar encompassing a variety of topics including ground rounds scenarios, treatment planning exercises, interesting case presentations, surgical bloopers seminar, conscious sedation review, medical emergency scenarios, and written board certification review. This interactive format further develops the resident teaching experience while stimulating group discussions on assigned topics.

**NPDS 333 Seminar, Orthodontics**

Continuation of NPDS 247.

**NPDS 334 Seminar, Current Periodontal Topics**

Continuation of NPDS 277

**NPDS 335 Seminar, Board Case Presentation (Periodontics)**

Continuation of NPDS 238

**NPDS 336 Seminar, Current Periodontics Literature**

Continuation of NPDS 243.

**NPDS 338 Seminar, Periodontics Literature**

Continuation of NPDS 245.

**NPDS 339 Seminar, Periodontics/Prosthodontics**

Continuation of NPDS 246.

**NPDS 340 Specialty Clinic, Periodontics**

Clinical experience in the treatment of severe periodontal disease. Prerequisite: NPDS 248.

**NPDS 341 Teaching, Periodontics**

Resident participates in the periodontics teaching program at an advanced level, including the preparation and presentation of seminars and lectures on periodontally related subjects.

**NPDS 395 Seminar, Sinus Lift**

During this seminar residents review open and closed sinus lift techniques in preparation for implant placement. The residents will understand available imaging techniques as well as ways to manage possible complications after a sinus lift procedure.

**NPDS 412 Anesthesia Rotation**

Residents participate in a 3-month full-time clinical rotation in the department of anesthesiology at the Walter Reed National Military Medical Center Bethesda. Clinical experience in managing the compromised airway is provided.

**NPDS 413 Current Periodontal Topics**

Continuation of NPDS 334

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**PROSTHODONTICS**

Faculty: CAPT Taft, CAPT Ellert, CDR Petrich, CDR Wilson, LCDR P. Barndt, LCDR M. Barndt,

**NPDS 223 Dental Implantology**

This course will introduce participants to basic diagnosis, treatment planning, and delivery of dental implants. Topics covered will include the history of dental implantology, principles of osseointegration, dental radiographic imaging techniques, implant patient selection, and surgical stent design. Surgical technique and armamentarium as well as restoration, design, and fabrication will be presented. The course will emphasize diagnosis, patient selection, surgical and prosthodontic techniques, and follow-up care required for a patient receiving implants. The course will culminate with lectures on treatment complications, hygiene, and patient presentations. The team approach to dental implantology is the most important factor in successful patient treatment. This does not imply merely division of labor but an absolute mutual understanding and respect for the requirements for all participating providers. The participants of this course are expected to learn the role and basic techniques employed by all the disciplines involved in treatment with dental implants.

**NPDS 251 Clinic and Laboratory Assignments, Prosthodontics**

Clinical patient treatment on a comprehensive basis stressing excellence in fundamental prosthodontic techniques. Diagnosis, treatment planning, treatment sequencing, and fundamental prosthodontic principles are stressed in preparation for management of more complex cases. This also includes clinical cases in fixed partial dentures, removable partial dentures, and complete dentures fabricated by prosthodontics residents to acquaint them with laboratory procedures necessary for the practice of prosthodontics and as a requisite to serve as a laboratory officer.

**NPDS 252 Complete Dentures**

This course is presented to the first-year prosthodontic and comprehensive dentistry residents. Lectures and laboratory sessions present the fundamental principles of complete denture therapy. The 5-appointment routine is presented and demonstrated, preparing the resident to practice these techniques clinically. Immediate, single, and overdentures are introduced, along with patient management, troubleshooting, and a basic overview of laboratory technique. Lectures and demonstrations are given by Board-Certified prosthodontists.

**NPDS 253 Fixed Prosthodontics**

Lectures, demonstrations, and laboratory sessions will cover clinical and laboratory phases of fixed prosthodontics. Residents will be exposed to all phases of patient treatment in fixed prosthodontics from diagnosis and treatment planning to cementation.

**NPDS 256 Nutrition**

This course will be conducted by a trained nutritionist and will emphasize proper nutrition and diet

in the medically compromised and geriatric patient.

#### **NPDS 257 Seminar, Prosthodontics/Endodontics**

Timely topical seminars and clinical cases are presented by residents from the Endodontics and Prosthodontics Departments. Treatment rendered by both disciplines is planned, coordinated, and evaluated through group discussions under guidance of clinically experienced staff.

#### **NPDS 259 Removable Partial Dentures**

Lectures, demonstrations, and laboratory sessions dealing with clinical and laboratory phases of removable partial dentures from diagnosis to completion. Basic philosophies, theories, and current concepts will be investigated and applied, with an emphasis on a pragmatic approach to routine removable prosthodontic treatment. Resident is under the supervision of Diplomates of the American Board of Prosthodontics.

#### **PDS 260 Advanced Complete Dentures**

Designed for residents in prosthodontics, this course begins with a review of the fundamental principles of complete denture therapy and moves on to include advanced clinical and laboratory techniques. Lectures, seminars, and hands-on laboratory exercises are augmented by clinical and laboratory demonstrations on patients.

#### **NPDS 261 Advanced Fixed Prosthodontics**

This comprehensive course is designed for the first-year prosthodontic resident. It will cover advanced design theories in preparation, FDP frameworks, pontics, all ceramic restorations, and porcelain laminate veneers as well as laboratory exercises related to these theories. The intensive laboratory exposure demands concurrent demonstrations in the use of laboratory equipment. This course is presented in conjunction with NPDS 291 to reinforce the relationship between mandibular movement, articulator mechanics, and the clinical restorations fabricated.

#### **NPDS 266 Prosthodontic Oral Boards I**

Written and oral mock boards in the format of the American Board of Prosthodontics will assess the resident's comprehension of the literature and the ability to formulate and defend treatment decisions. Principle focus of the oral board will be on literature seminar material and didactic coursework.

#### **NPDS 271 Advanced Removable Partial Dentures**

A select course for first-year prosthodontic residents, not only reviewing basic philosophies, theories, and current concepts, but also introducing advanced removable partial denture design and treatment. Laboratory technology aspects will be emphasized.

#### **NPDS 291 Occlusion (Prosthodontics)**

A course designed for first-year prosthodontic residents introducing evolution, development, and accepted current philosophy of occlusion. An introduction to and the use of stereographic and pantographic fully adjustable instruments will be emphasized.

#### **NPDS 292 Speech Pathology**

This course is conducted by speech and language therapists from the Walter Reed National Military Medical Center Bethesda. It is designed to introduce participants to speech and language development and speech alterations secondary to congenital and acquired maxillofacial defects.

### **NPDS 293 Prosthodontics Conference, Guest Seminar**

Guest seminar of national stature, with backgrounds in clinical prosthodontics, teaching, and literature contributions, each presenting an all-day program to the prosthodontics residents and staff in a lecture-seminar-discussion modality. In addition, residents may attend programs presented by other guest seminar at local dental/medical education facilities.

### **NPDS 342 Advanced Clinic and Laboratory, Prosthodontics**

Continuation of NPDS 251. Clinical patient treatment on a comprehensive level involving advanced prosthodontic techniques. Residents are given the opportunity to pursue areas of special interest consistent with combined prosthodontic program requirements. This includes clinical cases at an advanced level involving complex laboratory procedures. Training should lead to a high degree of proficiency.

### **NPDS 344 Maxillofacial Prosthetics**

This course combines practical laboratory exercises, lectures, and seminars to introduce prosthodontics residents to maxillofacial prosthetics. The participants will make facial mouldage impressions and fabricate a silicone ear and acrylic ocular prostheses. A laboratory session for designing obturator frameworks using diagnostic casts and a workshop on the psychological impact of head and neck cancer will take place. The course will survey the general and specialty literature, collate available data and clinical experience, and present a rational approach to the evaluation, care, and maintenance of the oral health of patients undergoing head and neck radiation. The lecture/seminar material will also cover management of cleft lip and palate defects, mandibular and maxillary acquired defects, and ocular and oculo-facial prostheses. Where possible, there will be clinical presentation of patients with various maxillofacial prosthetic rehabilitations.

### **NPDS 345 Prosthodontic Oral Boards II**

Continuation of NPDS 266.

### **NPDS 349 Cleft Palate Conferences, Diagnosis and Treatment Planning**

Conducted by the Plastic Surgery Service, Walter Reed National Military Medical Center Bethesda, on diagnosis and treatment planning for the cleft palate patient.

### **NPDS 351 Seminar, Prosthodontic Literature**

Investigation of the literature in greater depth and consideration of its specific application to treatment problems and to justify the basis of treatment in the specialty of prosthodontics. Readings of historical and current prosthodontic literature to introduce the resident to the basis of clinical practice. Emphasis will be placed on papers relating to research and clinical techniques. The readings will augment basic courses to provide the resident with a greater in-depth knowledge in all areas of prosthodontics and enable the resident to justify clinical treatment.

### **NPDS 352 Seminar, Prosthodontics/Periodontics**

Clinical cases and timely topical seminars are presented by residents from the Periodontics and Prosthodontics Departments. Therapy rendered by both disciplines is planned, coordinated, and evaluated through group discussions under the guidance of clinically experienced staff members. Same as NPDS 339.

### **NPDS 354 Teaching, Prosthodontics**

Residents are expected to prepare a table clinic to be presented in their second year. This table clinic

should be of a caliber to present at the national meeting of the specialty. Third year residents teach and clinically mentor during the Prosthodontics continuing education course and serve as mentors directing selected seminar topics for the Comprehensive Dentistry Department.

### **NPDS 356 Seminar, Treatment Planning**

Treatment planning patient presentations will be delivered on a scheduled basis. Presentations will be evaluated by the prosthodontic staff and guest specialty consultants. Presentations will follow the format of the American Board of Prosthodontics and be an open forum for discussion of all facets of treatment options.

### **NPDS 362 Seminar, Prosthodontics/Oral Maxillofacial Surgery**

Seminar to review surgical, orthodontic, and prosthodontic treatment of patients requiring orthognathic surgery. Cases will be presented and discussed with respect to diagnosis, treatment planning, interdisciplinary cooperation, treatment sequelae, and prognosis. The purpose is to improve interdisciplinary understanding and cooperation. This is a joint seminar involving Walter Reed National Military Medical Center Bethesda oral and maxillofacial surgical residents and staff, the staff orthodontist, and the prosthodontic residents and staff.

### **NPDS 372 Advanced Osseointegration**

The course is designed for practitioners with prior surgical or restorative implant experience who desire current information on the advances in implant dentistry. The focus is primarily on the treatment of the partially edentulous patient. Specific areas to be emphasized include advanced treatment planning concepts, guided tissue regeneration, site preparation with grafting materials, and aesthetic single-tooth and multiunit restorations. Additional emphasis will be placed on follow-up care to include management of complications, routine maintenance, and emergency repairs. The course although conducted primarily through seminar format, will include patient presentations and “lessons learned” discussions. Presentations sponsored by a variety of implant manufacturer’s will be used to broaden the scope of the information presented.

### **NPDS 373 Basic Osseointegration Implant Techniques (Short Course)**

The course is designed for general dentists with little or no restorative implant experience who desire current information on the advances in implant dentistry. The focus will primarily be on the restoration of the single tooth implant. Specific areas to be emphasized include treatment planning concepts, guided tissue regeneration, site preparation with grafting materials, and aesthetic single-tooth restorations. Additional emphasis will be placed on follow-up care, to include management of complications, routine maintenance, and emergency repairs. Where possible, hands-on laboratory experience will be used to augment lecture material.

### **NPDS 393 Prosthodontics Conference, Guest Seminararians**

Guest seminararians of national stature, with backgrounds in clinical prosthodontics, teaching, and literature contributions, each presenting an all-day program to the prosthodontics residents and staff in a lecture-seminar-discussion modality. In addition, residents may attend programs presented by other guest seminararians at local dental/medical education facilities.

### **NPDS 400 Maxillofacial Clinical Prosthetics**

Clinical experience and laboratory instruction in the treatment of maxillofacial deficiencies of a severity and magnitude beyond the scope of prosthodontic training.

**NPDS 401 Cleft Palate Conference**

Similar to NPDS 349, with participation in treatment planning and staging of all conference cases.

**NPDS 402 Consultant Lectures and Seminars**

The resident attends lectures and seminars in the area pertaining to maxillofacial prosthetics.

**NPDS 403 Continuing Education Course and Observerships**

The resident attends continuing education courses and participates in training programs at institutions other than NPDS. Each institution offers a specific program or technique that maxillofacial residents can incorporate as an integral part of their training.

**NPDS 404 Head and Neck Surgery Observership**

The resident observes a representative variety of the major head and neck surgery performed in the main operating room at the Walter Reed National Military Medical Center Bethesda, and assists the surgeons in the treatment of patients with surgical prostheses. This course will include instruction in surgical scrubbing, gloving, and gowning. The resident will be assigned rotation periods in Oral and Maxillofacial Surgery and Head and Neck Surgery/Otolaryngology.

**NPDS 405 Head and Neck Tumor Board**

The resident attends weekly Tumor Board conferences and participates along with otolaryngology, oral and maxillofacial surgery, radiation therapy, and chemotherapy personnel of the Walter Reed National Military Medical Center Bethesda, Bethesda, in treatment planning for head and neck cancer patients.

**NPDS 406 Seminar, Patient Presentation (Maxillofacial Prosthetics)**

Maxillofacial prosthetic cases are documented and presented to the departmental staff and residents.

**NPDS 407 Seminar, Maxillofacial Prosthetics Literature**

Continuation of NPDS 351. A comprehensive review of the literature of maxillofacial prosthetics.

**NPDS 409 Teaching, Maxillofacial Prosthetics**

The resident participates in the prosthodontic teaching program, instructs technicians and prosthodontic residents in laboratory techniques unique to maxillofacial prosthetics, and assists second-year residents in prosthodontics with clinical maxillofacial prosthetic cases.

**NPDS 410 Maxillofacial Prosthetics Laboratory Procedures**

The resident learns the characteristics and properties of the materials unique to maxillofacial prosthetics and also the technical procedures for making facial, ocular, and large intraoral prostheses.

**NPDS 420 Prosthodontic Oral Boards III**

Continuation of NPDS 345. Culmination of the third year board preparation will be the presentation and defense of their American Board of Prosthodontics board case. Presentations will be formal with department staff, fellow residents, and interested guests in attendance.

**NPDS 442 Advanced Clinic and Laboratory, Prosthodontics**

Continuation of NPDS 342..

### **NPDS 493 Prosthodontics Conference, Guest Seminar**

Guest seminar of national stature, with backgrounds in clinical prosthodontics, teaching, and literature contributions, each presenting an all-day program to the prosthodontics residents and staff in a lecture-seminar-discussion modality. In addition, residents may attend programs presented by other guest seminar at local dental/medical education facilities.

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### **RELATED TOPICS**

Faculty: CAPT Reeg, CDR Miller, Dr. Puglisi, NPDS Staff

### **NPDS 282 Seminar, Medical Emergencies**

Monthly seminars developed by the residents and staff to review common medical emergencies. Scenarios will be developed to interrelate signs and symptoms, causative factors, and physiology. Emphasis will be placed on office procedures undertaken in response to an emergency.

### **NPDS 310 Teaching Methods Seminar**

This course is an introduction to some of the ideas and skills of concern to dental educators. The focus is on residents' immediate needs as lecturers at NPDS and their future needs as teachers at dental clinics. Topics include the NPDS instructional systems development model, levels of learning, educational outcomes, evaluation methods, instructional strategies, and clinical mentoring.

### **NPDS 311 Ethics**

This course will address cognitive concepts regarding basic issues in dental care dilemmas. Realistic dilemmas will be selected for presentation, including the noncompliant or phobic patient, informed consent, professional integrity, quality versus quantity care compromises, and treatment of the infectious patient.

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### **RESEARCH**

Faculty: CAPT Imamura, CAPT Grant, CAPT Diefenderfer, Dr. Bertrand

### **NPDS 263 (10 hrs.) Research Methods I**

This course will provide residents with a historical background and cover rules governing human subjects research. It will review concepts of evidence based dentistry. It will provide a basic knowledge and background to review literature and guide residents in designing, preparing and submitting a protocol for institutional review.

### **NPDS 264 (120 hrs.) Research Project**

Each resident must complete a research project and will select a research committee to assist them in their endeavor. After reviewing the literature, a protocol will be written and submitted for institutional review. In some instances, a review paper may be substituted.

### **NPDS 355 (5 hrs.) Research Method II**

A continuation of NPDS 263, this course will introduce residents to integrity in research and in the dissemination of information. Both courses should enhance resident's abilities to critically review the scientific literature. Each resident will prepare and provide an oral presentation of their completed project at the annual research symposium.

**NPDS 369** (150 hrs) Research Project

A continuation of NPDS 264, following study approval, the resident will execute their study. This course will assist residents in data collection and analysis of results. Each resident will prepare a written paper on their completed project and defend it in front of a research committee.

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## CONTINUING DENTAL EDUCATION PROGRAM

Each year, the Naval Postgraduate Dental School provides a series of continuing education courses. These courses present the latest developments in dentistry and promote the highest standards of dental practice.

Courses are open to dental officers of the Armed Forces and dentists affiliated with Federal agencies. Applications from civilian dentists are considered on a space-available basis. Some courses have specific enrollment restrictions (see brochure for eligibility statements).

The United States Navy Dental Corps is designated as a recognized provider by the Continuing Education Recognition Program conducted under the auspices of the American Dental Association.

“The United States Navy Dental Corps is designated as a nationally approved sponsor by the Academy of General Dentistry. The formal continuing education programs of this sponsor are accepted by AGD for Fellowship, Mastership, and membership maintenance credit. The current term of approval extends from January 2010 through December 2013.”

### 2013-2014 COURSES AND DATES

<b>Courses</b>	<b>Dates</b>
General Dentistry Clinical Update	28 October–1 November 2013
Orofacial Pain	4-8 November 2013
Digital Dentistry	18-22 November 2013
Endodontics	9-13 December 2013
Pain Control & Nitrous Oxide Anxiolysis	16-19 December 2013
Oral and Maxillofacial Surgery Review (Oral Surgeons)	19, 20-24 January 2014
Oral & Maxillofacial Pathology	27-31 January 2014
Incorporating Occlusion into Restorative Treatment	10-13 February 2014
Pediatric Dentistry & Orthodontics	24-28 February 2014
Periodontics	10-14 March 2014
Oral Medicine, Oral Radiology & Pharmacology	24-28 March 2014
Prosthodontics	31 March - 4 April 2014
Forensic Dentistry	9-10 April 2014
Oral and Maxillofacial Surgery	21-25 April 2014
Basic Osseointegration Implant Techniques	28 April-2 May 2014
General Dentistry Treatment Planning	5-9 May 2014
Advanced Operative Dentistry	12-16 May 2014

Descriptions of the courses are available on the NPDS website <http://www.wrnmcc.caped.mil/ResearchEducation/NPDS/SitePages/EducationalResources.aspx>.

### Enrollment Procedures

All requests for enrollment must be made through the Naval Postgraduate Dental School's Continuing Education Office either by calling DSN 295-0205 or commercial (301) 295-0205 between the hours of 0700 and 1500; writing to the Dean, Attn: Continuing Education, Naval Postgraduate Dental School, 8901 Wisconsin Avenue, Bethesda, Maryland 20889-5602 or to [Ann.L.Leahy.civ@health.mil](mailto:Ann.L.Leahy.civ@health.mil). For those courses that list a limited enrollment quota, apply as soon as

possible to better your chances of obtaining a place in the course. Civilians should apply 1 week prior to the beginning of a course and will be accepted only if space is still available. If you need to cancel your enrollment in a course, notify us as soon as possible so that the vacant place may be reassigned to someone else.

### **Funding Support**

- Naval dental officers on active duty in BUMED activities apply to your local command.
- Naval dental officers in non-BUMED activities contact Commanding Officer (Code OGDC), Navy Medicine Professional Development Center 8901 Wisconsin Avenue, Bethesda, Maryland 20889-5411, or call DSN 295-0650 or commercial (301) 295-0650, FAX DSN 295-1783.

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### **CORRESPONDENCE COURSE PROGRAM**

To augment the educational programs available to dental officers, the Naval Medicine Professional Development Center sponsors a series of correspondence courses that are developed and administered by the Naval Postgraduate Dental School. The courses are based on widely accepted dental textbooks.

The program is designed to provide continuing education for all dental officers on active duty with the US Armed Forces or other Federal Agencies, for Reserve officers on inactive duty, and for dental officers of armed forces of friendly nations. By taking these correspondence courses, Naval Reserve officers on inactive duty may earn retirement points. Continuing education credits equal three times the number of retirement points.

Endodontics (NAVEDTRA 13151-C)	8 Assignments	16 points
Fixed Prosthodontics (NAVEDTRA 13106-B)	6 Assignments	12 points
Operative Dentistry (NAVEDTRA 13146-B)	5 Assignments	10 points
Oral Pathology (NAVEDTRA 13150-B)	7 Assignments	14 points
Orthodontics (NAVEDTRA 13136-B)	6 Assignments	14 points
Oral Surgery (NAVEDTRA 13105-A)	10 Assignments	18 points
Pediatric Dentistry (NAVEDTRA 13115-A)	7 Assignments	14 Points
Periodontics (NAVEDTRA 10758-C)	9 Assignments	18 points
Sleep Medicine (NAVEDTRA 13156-A)	4 Assignments	5 points

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## **VIDEO/CD SERIES**

This series consists of videos of lectures by Naval Postgraduate Dental School staff on subjects of interest to dentists on active duty. The purpose of the series is to provide dentists with an alternative form of continuing education that will enable them to provide better dental care.

Videos are available to dental officers on active duty with the US Armed Forces or other Federal agencies and Reserve dental officers. The programs may be used on an individual or small group basis. Continuing education credit is given for most of the programs viewed. A short quiz must be taken to receive the continuing education credit. The quizzes are graded and returned to the dental officer. A completion letter will be issued after the tape is returned to the Naval Postgraduate Dental School.

The following programs are available:

Nitrous Oxide Equipment and Techniques: a Refresher  
Orofacial Pain–Differential Diagnosis, Co-morbid Diagnosis and Mimickers  
Periodontal Plastic Surgery  
Biopsy Principles and Techniques

### **Course Information and Applications**

Descriptions of the courses and videos, eligibility requirements, and application procedures are described on the NPDS website:

<http://www.wrnmcc.capmed.mil/ResearchEducation/NPDS/SitePages/EducationalResources.aspx>

Applications are also available from:

Dean  
ATTN: Educational Resources  
Naval Postgraduate Dental School  
Navy Medicine Personnel Development Center  
8901 Wisconsin Avenue  
Bethesda, MD 20889-5602

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## **ADJUNCT CLINICAL FACULTY**

Appointees are privileged providers at the Naval Postgraduate Dental School and may be assigned clinical mentoring responsibilities by the Chairpersons of the Advanced Specialty Education Programs at NPDS.

CAPT Raney J. Deschenes, U S Public Health Service, Cape May, NJ (Endodontics)  
CAPT Arthur George, DC, USN, BUMED (Comprehensive Dentistry)  
CAPT Gary Goodell, DC, USN, BUMED (Endodontics)  
CAPT David Hartzell, DC, USN, BUMED (Comprehensive Dentistry)  
CAPT Brett Metcalf, DC, USN, US Naval Academy, Annapolis MD (Periodontics)  
CAPT Craig Neitzke, U S Naval Academy, Annapolis, MD (Prosthodontics)  
CAPT Joseph Rusz, DC, USN, Tri-Service Pentagon Clinic (Comprehensive Dentistry)  
CAPT Donald Worm, DC, USN, Navy Medicine Professional Development Center (Comprehensive Dentistry)  
LCDR Yasir Bahrani, DC, USN, Naval Health Clinic Quantico (Periodontics)  
LCDR Dea Brueggemeyer, DC, USN, BUMED (Comprehensive Dentistry)  
Dr. John Allemang, New Market, MD, 2010-2013 (Endodontics)  
Dr. Gerald Santulli, Tri-Service Pentagon Clinic, Arlington, VA (Prosthodontics)

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## **VISITING FACULTY, CONSULTANTS, AND VISITING LECTURERS**

Appointees serve from September to September of the years indicated. Military personnel serve for the present school year and continue, dependent on future assignments and availability.

### **BIOMEDICAL SCIENCES**

#### **Visiting Faculty**

Dr. William A. Falkler, University of Maryland Baltimore School of Dentistry, 2010-2013

Dr. Glenn E. Minah, University of Maryland Baltimore School of Dentistry, 2010-2013

Dr. Arasu Chellaiah, University of Maryland Baltimore School of Dentistry, 2010-2013

### **COMPREHENSIVE DENTISTRY**

#### **Consultants**

CAPT Donald Worm, DC, USN, Navy Medicine Professional Development Center

Dr. Alfred Certosimo, Richmond, VA 2013-2016

Dr. Austin Maxwell, Olney, MD 2010-2013

### **ENDODONTICS**

#### **Consultants**

Dr. Kenneth M. Hargreaves, University of Texas - Health Science Center at San Antonio, 2011-2014

Dr. M. Lamar Hicks, University of Maryland School of Dentistry, 2010-2013

Dr. James Johnson, University of Washington 2012-2015

Dr. Scott B. McClanahan, School of Dentistry, University of Minnesota, 2011-2014

Dr. Stephen P. Niemczyk, Harvard University School of Dental Medicine, 2011-2014

### **MAXILLOFACIAL PROSTHETICS**

#### **Consultants**

Dr. Mark Chambers, MD Anderson Hospital, Houston, TX, 2010-2013

### **MILITARY DENTISTRY**

#### **Consultants**

RDML Elaine Wagner, Chief, Navy Dental Corps

CAPT Philip Rinaudo, BUMED, Washington, DC

### **OPERATIVE DENTISTRY**

#### **Consultants**

Dr. Michael Cochran, Indiana University, 2010-2013

Dr. N. Blaine Cook, University of Nebraska, 2010-2013

Dr. Justine Kolker, University of Iowa, 2011-2014

Dr. Henry St. Germain, University of Nebraska, 2010-2013

Dr. Gary Schumacher, National Institute of Standards and Technology, Gaithersburg, MD, 2012-2015

Dr. Marcos Vargas, University of Iowa, 2011-2014

## **ORAL DIAGNOSIS/ORAL MEDICINE AND ORAL AND MAXILLOFACIAL RADIOLOGY**

### **Consultants**

Dr. Ronald Brown, Howard University, 2011-2014

Dr. Craig Hatch, VA Medical Center, 2011-2014

Dr. Michael Huber, University of Texas - Health Science Center at San Antonio, 2012-2015

Dr. Joseph Konzelman, Brunswick, MD, 2011-2014

Dr. Dale Miles, Private Practice, Fountain Hills, Arizona, 2012-2015

Dr. Nelson Rhodus, University of Minnesota, 2011-2014

Dr. Michael Siegel, Nova Southeastern University College of Dental Medicine, 2010-2013

Dr. Sol Silverman, University of California School of Dentistry, 2011-2014

Dr. Thomas Sollecito, University of Pennsylvania School of Dental Medicine, 2010-2013

Dr. Geza T. Terezhalmay, University of Texas - Health Science Center at San Antonio, 2010-2013

## **ORAL AND MAXILLOFACIAL PATHOLOGY**

### **Consultants**

CAPT Paul Shick, DC, USN, Walter Reed National Military Medical Center Bethesda

### **Visiting Lecturers**

CAPT James Castle, DC, USN, Portsmouth Naval Medical Center

COL David Flint, DC, USA, Walter Reed National Military Medical Center Bethesda

COL Preston Welch, DC, USA, Fort Belvoir Community Hospital

## **ORAL AND MAXILLOFACIAL SURGERY**

### **Consultants**

CAPT David Bitonti, DC, USN, Walter Reed National Military Medical Center Bethesda

COL David Powers, USAF, DC, C-STARS, Baltimore, MD

CDR Milan Jugan, DC, USN, NMC San Diego

Dr. Jeffrey Posnick, Washington, DC, 2012-2015

Dr. Miles Wilhelm, Charlottesville, VA, 2010-2013

Dr. Ann K. Yoshihashi, Pensacola, 2010-2013

### **Visiting Lecturers**

COL Steven Taylor, DC, USA, Walter Reed National Military Medical Center Bethesda

CAPT Jay Vandervort, DC, USN, Naval Medical Center Portsmouth

CDR Joseph Andrews, DC, USN, NH Camp Lejeune

MAJ Kimberly Perkins, DC, USA, Walter Reed National Military Medical Center Bethesda

MAJ Daron Praetzel, USAF, DC, Wright-Patterson AFB, Dayton, OH

LCDR Martha Scotty, DC, USN, NH Bremerton, WA

Dr. Peter Eisenhardt, Charlottesville, VA, 2010-2013

Dr. G. Joel Funari, Swathmore, PA, 2010-2013

Dr. Gene Kohler, Annapolis, MD, 2012-2015

Dr. George Obeid, Washington Hospital Center, Washington, DC, 2010-2013

Dr. Noah Sandler, University of Minnesota, 2010-2013

Dr. Carl Tempel, Walter Reed National Military Medical Center Bethesda, 2010-2013  
Dr. Caroline Webber, Virginia Beach, VA, 2011-2014  
Dr. Mike Will, Urbana, MD, 2011-2014  
Dr. Miles Wilhelm, Charlottesville, VA 2010-2013

## **OROFACIAL PAIN**

### **Consultants**

CAPT M. A. Branch, Naval Medical Center, San Diego CA, 2011-2014  
CAPT William Dando, Naval Hospital Camp Lejeune, NC, 2012-2015  
Dr. A. Dale Ehrlich, Louisiana State University School of Dentistry, 2011-14  
Dr. Charles Carlson, University of Kentucky, 2010-2013  
Dr. Paul Durham, Center for Biomedical and Life Sciences, Missouri State University, 2011-2014  
Dr. Sylvan S. Mintz, Bethesda, MD, 2011-2014  
Dr. Curtis Bergey, Chesapeake, VA, 2011-2014

## **ORTHODONTICS**

### **Consultants**

CAPT Brent Callegari, DC, USN, Tri-service Orthodontics Residency Program, Lackland AFB, TX  
Dr. Jon Moles, Frederick, MD, 2010-2013

## **PEDIATRIC DENTISTRY**

### **Consultants**

CAPT Margaret Alexander, DC, USN, NH Jacksonville  
CAPT Roberto J. Cabassa, DC, USN, NH Rota, Spain  
Dr. Charles Bookwalter, Burlington, VT, 2010-2013  
Dr. Charles Carlson, University of Kentucky, 2010-2013  
Dr. Barbara Craig, Bethesda, MD, 2010-2013  
Dr. J C Shirley, Marietta, GA, 2010-2013  
Dr. Kathy Maxwell, Olney, MD, 2010-2013  
Dr. Elizabeth Shin, Walter Reed National Military Medical Center Bethesda, 2012-2015  
Dr. Mark Sorin, Virginia Beach, VA, 2011-2014

## **PERIODONTICS**

### **Consultants**

RADM Bruce Doll, SHCE, USN, BUMED  
COL Ridge Gilley, USAF, DC, Bolling AFB  
COL Gary Swiec, DC, USA, Ft. Meade, MD  
Dr. Gerald M. Bowers, Pasadena, MD, 2010-2013  
Dr. John Bruno, Springfield, VA, 2011-2014  
Dr. Dan Holtzclaw, Austin, TX, 2013-2016  
Dr. Brian F. Paul, VA Medical Center, Washington, DC, 2010-2013  
Dr. Paul Rosen, Yeardeley, PA, 2013-2016  
Dr. Jon B. Suzuki, Temple University School of Dentistry, 2010-2013

## **PROSTHODONTICS**

### **Consultants**

COL Alan Sutton, USAF, DC, Lackland AFB, TX  
Dr. Steven Aquilino, University of Iowa, 2012-2015  
Dr Alan H. Brodine, Rochester, NY, 2011-2014  
Dr. David Cagna, University of Tennessee, 2010-2013  
Dr. Keith E. Kinderknecht, University of Alabama, 2010-2013  
Dr. Richard Leupold, Veterans Administration Medical Center, Washington, DC, 2015-15  
Dr. John Petrini, Sr., California, 2011-2014  
Dr. Gerald Santuli, Pentagon Dental Clinic, 2011-14  
Dr. Scott Synnott, Reston, VA, 2010-2013  
Dr. Tom Taylor, University of Connecticut, 2012-15

## **RESEARCH**

### **Consultants**

CAPT (Ret) Dale Ehrlich, DC, USN, Louisiana State University, School of Dentistry, Baton Rouge, LA  
CAPT James Ragain, Jr., DC, USN, MCRD, Parris Island  
Dr. David G. Charlton, Naval Medical Research Unit, San Antonio, 2010-2013  
Dr. David Hunt, National Museum of Natural History, Washington, DC, 2010-2013  
Dr. Gary Schumacher, National Institute of Standards and Technology, Gaithersburg, MD, 2012-2015  
Dr. John Simecek, Division Head, Applied Clinical Science, Dental and Biomedical Research Department, Naval Medical Research Unit (NAMRU), San Antonio, TX, 2010-2013  
Dr. Amer Tiba, Division of Science, American Dental Association, Chicago, IL, 2010-2013