AEGD Philosophy and Mission Statement

The Tufts Advanced Education Residency in General Dentistry strives to provide caring, comprehensive dental care to the many patients served by our associated clinics and hospitals. Our practitioners will provide quality care through a commitment to lifelong learning and education. With a experience in the special needs population, our goal is to increase oral health awareness in the community. In addition, our program aims to decrease disparities in access to oral care for the general and special needs patient populations. The main building blocks of our success come from dedication, compassion, and a willingness to serve our community.

The Tufts University Advanced Education in General Dentistry (AEGD) was founded in 2014. It is conducted with the cooperation and participation of its sponsoring institution, Tufts University School of Dental Medicine (TUSDM), Tufts Dental Facilities (TDF), and Maine Medical Center (MMC) and affiliate Community Dental Organization of Maine. There are currently six resident positions in the PGY 1 program.

The AEGD program share curriculum with the TUSDM General Practice Residency program both didactically and clinically, providing a strong foundation for resident training.

Rotation participation provides the residents with diverse clinical and educational experiences. At the TDF clinics in outlying suburban areas, residents receive training in the diagnosis and treatment of oral disease, with an emphasis on prevention and restoration, for patients with multiple disabilities and limitations. Through TDF, the residents will also participate for referral services in the largest OR dental rehabilitation program for special needs patients in the country. The clinical rotation at TUSDM emphasizes crown and bridge, restorations, and treatment of the general population with complex dental needs. At TUSDM, the residents receive training in Dental emergency care and inpatient dental consult services. Specialty clinical and seminar rotations provide the residents advanced training in history and physical diagnosis, conscious sedation, periodontal surgery, endodontic therapy, oral surgery, TMD, implantology, and practice management. The Maine Campus provides similar experiences clinically at the Community Dental Organization clinics located in Biddeford, Portland and
Completion of the Tufts AEGD Program will prepare the graduate to:

- Act as a primary care provider for individuals and groups of patients. This includes the planning, coordination and provision of multidisciplinary comprehensive oral health care for a wide variety of patients, including patients with special needs.
- Apply the exposure to advanced dental treatment modalities provided during the residency training to the practice of dentistry.
- Have a working knowledge of mental retardation, mental illness, and physical disabilities and the impact these conditions have on the provision of comprehensive dental care.
- Function effectively within health care environments. This includes the ability to provide general dentistry services for a patient who has been placed under conscious sedation.
- Function effectively as a member of an interdisciplinary health care team.
- To provide emergency oral health care.
- To promote disease prevention and oral health promotion for patient in the clinical environment as well as the community.
- Manage the delivery of oral health care by applying concepts of patient and practice management. This includes anxiety and pain control management, patient consent, staffing coordination, for the provision of care to the general population as well as the special needs population.
- To understand the fundamentals of quality care and the concept of quality assurance.
- Apply scientific principles to learning and oral health care. This includes using comprehensive literature review, critical thinking, evidence or outcomes-based clinical decision-making and technology-based information retrieval systems.
- Utilize the values of professional ethics, patient’s rights, lifelong learning, patient centered care, adaptability, and acceptance of cultural diversity in professional practice.

**Department Administration**

Department of Public Health & Community Service
Department Chair: Mark Nehring, D.M.D., M.P.H., M.Ed.

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AEGD/GPR Administrative Coordinator: Elizabeth L. Costa
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Program Faculty
Full and part-time faculty with administrative, academic and clinical responsibilities within the AEGD and GPR:

Dr. Gina Terenzi, Program Director, Associate Professor, holds a B.A. in Biology and D.M.D. from Boston University. She received certification in General Practice Residency from St. Francis Hospital and Medical Center in Hartford, CT and Certification for Chief in General Practice Residency from Carolinas Medical Center in North Carolina.

Faculty with clinical responsibilities within the AEGD/GPR Program:

**Boston Campus:**
Thomas Bjornson, D.M.D.
Diran Balekian, DMD
Karen Chang, D.M.D.
Darren Drag, D.M.D.
Anastasia Foufas, D.M.D.
Kallen Hull, D.M.D.
Robert Kaplan, D.M.D.
Christine Lonegan, D.M.D.
Robert Mandell, D.M.D.
Richard Miller, D.M.D.
Paola Pabon, D.M.D.
Krista Pauly, D.D.S.
Joel Pearlman, D.M.D.
Morton Rosenberg, D.M.D.
Hana Sadi, B.D.S.
Andre St. Germain, D.M.D
Laila Von Andrian, D.M.D.
Gary Warrington, D.M.D.
Bonnie Zimble, D.M.D.

**Maine Campus:**
Jeff Walawender, DDS
James Schmidt, DDS
Audrey Stack, DMD
Curriculum Coursework

Formal Courses for the AEGD include:

**Successful Research Strategies:** Mandatory for all Post Graduate Students
Course Director
Dr. Paul Stark
Summer semester

Course Description
This is an interdepartmental course for all Advanced Education students and a core course for the MS students. It provides 1.0 graduate credit for MS students. The course provides an overview of the ethical background and administrative procedures necessary for any research project involving human subjects. The course consists of 4 hours of lecture material, which is available on TUSK, as well as the successful completion of an online examination, which is also on TUSK. In addition, students need to complete 6 hours of online lectures and associated CITI examination. For more information see the Tufts University Health Sciences Campus Institutional Review Board (IRB) website at: [http://tnemcirb.tufts.edu/](http://tnemcirb.tufts.edu/)

Course Goals and Objectives
The educational goal of this course is to introduce the graduate students to the ethical dilemmas involving human subject-related research as well as the implementation of safeguards put in place by the Institutions to assure the well-being of research subjects as it relates to Ethics and Professionalism. By the completion of the course, students should:

- Understand the ethical responsibilities of a clinical researcher and the role of the Institutional Review Board
- Be familiar with basic principles of clinical research
- Be familiar with basic forms and terminology used in research projects involving human subjects at Tufts
- Be able to direct their questions to the appropriate individuals at TUSDM and the IRB.
Outcome Measures
Attendance is mandatory for all Advanced Education residents and Master of Science candidates. Upon completion, students will be instructed to complete additional educational requirements as determined by the IRB. Successful completion will result in a grade of Pass for the course.

History and Physical Diagnosis
Course Director, Dr. Elisabeth Wilder: Associate Professor, Tufts Medical Center
Course Attending, Dr. Ellis Johnson: Staff Physician, Maine Medical Center
Summer/Fall semester

The goals and objectives of this course will allow residents to:
- Understand the relationship between oral health and systemic diseases
- Perform a history and physical evaluation and collect other data to establish a risk assessment for use in the development of a dental treatment plan
- Obtain and interpret clinical and other diagnostic data from dental professional and other health care providers
- Use the services of clinical, medical and pathology laboratories and make referrals to other health professionals for the utilization of these services

Outcome Measures
Direct observation by course director
Didactic and clinical exam results


Nitrous Oxide/ Inhalation and Conscious Sedation Course
Course Director, Dr. Morton Rosenberg: Professor
Summer semester

Inhalation Sedation Course Objectives: Upon completion of a competency course in inhalation sedation techniques, the dentist must be able to:
- Describe the basic components of inhalation sedation equipment.
- Discuss the function of each of these components.
- List and discuss the advantages and disadvantages of inhalation sedation.
- List and discuss the indications and contraindications of inhalation sedation.
List the complications associated with inhalation sedation.
Discuss the prevention, recognition and management of these complications.
Administer inhalation sedation to patients in a clinical setting in a safe and effective manner.
Discuss the abuse potential, occupational hazards and other untoward effects of inhalation agents.

Inhalation and Conscious Sedation Course Content:
- Historical, philosophical and psychological aspects of anxiety and pain control.
- Patient evaluation and selection through review of medical history taking, physical diagnosis and psychological considerations.
- Definitions and descriptions of physiological and psychological aspects of anxiety and pain.
- Description of the stages of drug-induced central nervous system depression through all levels of consciousness and unconsciousness, with special emphasis on the distinction between the conscious and the unconscious state.
- Review of pediatric and adult respiratory and circulatory physiology and related anatomy.
- Pharmacology of agents used in inhalation sedation, including drug interactions and incompatibilities.
- Indications and contraindications for use of inhalation sedation
- Review of dental procedures possible under inhalation sedation.
- Patient monitoring using observation and monitoring equipment, with particular attention to vital signs and reflexes related to pharmacology of nitrous oxide.
- Importance of maintaining proper records with accurate chart entries recording medical history, physical examination, vital signs, drugs and doses administered and patient response.
- Prevention, recognition and management of complications and life-threatening situations.
- Administration of local anesthesia in conjunction with inhalation sedation techniques.
- Description and use of inhalation sedation equipment.
- Introduction to potential health hazards of trace anesthetics and proposed techniques for limiting occupational exposure.
- Discussion of abuse potential.

Outcome Measures
Clinical observation
Case note review by faculty
Advanced Cardiovascular Life Support Certification
Michael Wilson, American Heart Association Certified Instructor TUSDM
Spring Semester
Maine Medical Center MD Associates:
Summer Semester; Maine Campus: July

The goal of this course is to achieve proficiency and certification in the provision of Advanced Cardiovascular Life Support

Outcome Measure
Successful completion of both written and practical exam resulting in certification

Associated Reading: Advanced Cardiovascular Life Support Provider Manual, American Heart Association

Program Curriculum: Seminars outlined below are throughout the year for a comprehensive approach to didactic and clinical learning.

Periodontal Seminar Program - Literature Review and Clinical Instruction
The goals and objectives of this curriculum are to allow the resident to:

- Diagnose and treatment plan periodontal status.
- Perform initial therapy for periodontal oral care.
- Re-evaluate periodontal health for surgical therapy.
- Analyze critically periodontal literature and its relation to current concepts in periodontics.

Curriculum Delegate: Dr. Robert L Mandell, DMD, MSc: Board Certified Periodontist:

Practice Management Seminar Program
The goals and objectives for this curriculum will allow the resident to:

- Understand business plan concepts
- Understand behavior management and its impact on the dental practice
- Understand the need for dental practice systems
- Understand the importance of being a leader
- Transitions from GPR to life after training

Curriculum Delegate: Gina Terenzi DMD
Oral Surgery Seminar Program
The goals and objectives for this curriculum will allow the resident to:
• Diagnose and treatment plan the oral surgical needs of patient care both medically and dentally.
• Understand concepts of and perform exodontia.
• Perform simple pre-prosthetic surgery.
• Understand the initial treatment and management of extra-oral facial trauma.
• Detect and treatment plan initial treatment for intra-oral pathology.
• Treat intra-oral hard and soft tissue lesions of traumatic origin.

Curriculum Delegate: Department of Oral Surgery TUSDM

Prosthodontic Seminar Program
• The goals and objectives for this curriculum will allow the resident to:
• Diagnose and treatment plan the fixed and removable prosthodontic needs of oral care.
• Appropriate referral when necessary.
• Understand theory and apply practice of current concepts and techniques of fixed and removable prosthodontics.
• Understand the fundamentals of restoring implants.
• Understand the relationship between occlusion and dental rehabilitation with fixed and removable prosthetics.
• Understand the necessity of proper treatment planning needs for implant prosthodontics
• Understand diagnostic tools necessary for proper implant treatment planning work ups
• Understand Implant prosthodontic trouble shooting
• Understand Principles of surgical implant placement from patient selection to surgical technique

Curriculum Delegate: Hana Sadi DMD

Endodontic Seminar Program: The goals and objectives for this curriculum will allow the resident to:
• Be exposed to current concepts in pulpal therapy and modalities of treatment.
• Appropriate diagnosis and treatment planning for comprehensive and emergency pulpal care.
• Advanced training in treatment techniques of single and multi-rooted teeth in need of endodontic care.

Current academic schedules can be accessed on the Tufts University Trunk system.
Program Clinical Instruction

Clinical instruction for patient care in dentistry and medicine are throughout the year in the following rotations and resident experiences will enable the resident to perform the listed goals and objectives:

Boston Campus:

Advanced General Dentistry Clinic
Tufts University School of Dental Medicine, 1 Kneeland St. Boston
50% Clinical Time.
- Expose the residents to professional skills and practice management necessary to function effectively in the private general practice setting.
- Utilize the resources available within the Dental School for advanced training, one on one, in dental specialties for practice in comprehensive patient care.
- Train residents in complex dental procedures.
- Train residents in time management.
- Expose residents to various dental materials not typically used in undergraduate clinics.
- Provide opportunities to residents to teach pre-doctoral students within the dental school.

Tufts Dental Facilities, Taunton, Wrentham and Canton, MA
5% Clinical Time.
- Expose the residents to professional skills and practice management necessary to function effectively in a public health center, focusing specifically on special care dentistry. This includes patient care for those with developmental disabilities, geriatrics, and the medically compromised.
- Train residents in advanced behavior management
- Train residents in advanced medical management
- Train residents advanced topics for informed consent, guardianship issues, and interdisciplinary communication.

Emergency Clinic and Consultation Service
TUSDM Emergency Dental Clinic: 2nd Floor
Ongoing experiences year round
Dental Emergency service for TUSDM and referral service for Tufts Medical Center ER. Consult Service is for inpatient care for dental needs.

- Treat patient's intra-oral dental emergencies.
- Manage patients with extra-oral emergencies.
- Anticipate and treat medical emergencies.
- Do initial management of extra-oral trauma.
- Treat minor intra-oral trauma.
- Interdisciplinary care with the Department of Oral Surgery and Endodontics

- Act as a primary care provider for patient's oral health as it relates to medical health.
- Apply knowledge of patient's physical and mental disabilities and their impact on comprehensive dental care in order to consult appropriately.
- Act as a member of an interdisciplinary healthcare team.

Oral Surgery
TUSDM, Department of Oral Surgery
Ongoing experiences year round: 2 days per month

- To extract teeth.
- To extract uncomplicated impacted third molars.
- To perform uncomplicated pre-prosthetic surgery.
- Treat complications of intra-oral surgery.
- Treat complications of extra-oral surgery.
- Perform simple biopsies of oral tissues

Gelb Oro-Facial Pain Clinic
TUSDM
Ongoing experiences year round: one day per month

- Understand anatomy of the TMJ and its relationship to TMD.
- Diagnose and treat uncomplicated TMD.
- Diagnose and Manage Uncomplicated Occlusal Disorders.
- Assess and manage facial pain.

Maine Campus:

Community Dental Organization of Maine Clinic
Portland, Biddeford, Lewiston
100% Clinical Time.

All experiences described in the Boston Campus Clinical Resources are integrated within the Community Dental Facilities.

- Expose the residents to professional skills and practice management necessary to function effectively in the private general practice setting.
• Utilize the resources available within the Dental School for advanced training, one on one, in dental specialties for practice in comprehensive patient care.
• Train residents in complex dental procedures.
• Train residents in time management.
• Expose residents to various dental materials not typically used in undergraduate clinics.
• Provide opportunities to residents to teach pre-doctoral students within the dental school.

Promotion and Graduation Requirements

Promotion and graduation requirements are in keeping with a Residency Agreement policy for program participation, participation in the Individual Education Plan process for resident progress and evaluation, as well as completion of the Steps for Success program for best practice technique and quality of patient care. All other requirements for promotion and receipt of certificate at program end are in keeping with the Tufts University School of Dental Medicine Student Handbook. A sample of the resident agreement can be accessed on the Trunk system.

Schedules
Samples of Course, Patient Care Conferences and current clinic schedules can be accessed on the Tufts University Trunk system. Clinic and rotation participation are routinely from 8:30 a.m.–4:30 p.m, Monday - Friday.

Departmental Research and Publications
Residents are required to participate in the Annual Bates Andrews Research Day for presentation of table clinic projects. Projects are assigned at the beginning of the academic year and presented on Bates Day with occurs in February/March. Publications although not required are encouraged.

General Information
Tufts University School of Dental Medicine General Practice Residency is a stipend position. AEGD Residents are House Officers at Maine Medical Center and paid through this institution at the level of a Post Graduate Year 1 resident. AEGD Residents are registered Post Graduate Students at TUSDM and are eligible for loan deferment for the academic year due to this status. Student fees for supplies, books and activities may apply. Please see a sample of this information located in the Trunk system for Resident Agreements.
Medical insurance is available, and required for participation by Massachusetts state law. Premium cost to the resident is in keeping with University student health plans and Maine Medical/Maine Care Plans.

Departmental policies for time off may be accessed via Trunk. The AEGD Program has three weeks paid leave. The first week is selected for the resident and the second and third weeks are upon request. No vacation time can be taken in the last program month, June. Paid holidays are per the University Master Calendar, where no clinic duties are scheduled, unless the resident is scheduled for on-call services. Both Clinic and On Call schedules are assigned at the beginning of the year for the entire year in advance. All other time off is in keeping with University policies and the Program Director. Due to the multi-facility nature of the Program, the use of a car is required for program participation.

The TUSDM AEGD program is a multi-facility educational experience as described above in detail. All residents are House officers at Maine Medical Center. Residents must be eligible to practice dentistry as a graduate from an accredited dental school from within the United States or Canada. Temporary Intern Licensure is available for practice in Massachusetts pending application requirements and approval. Full Dental Licensure credentialing is required for the Maine Campus.

Maine Medical Center is a complete health care resource for the people of Greater Portland, the state of Maine, and northern New England. Incorporated in 1864, MMC is the state’s largest medical center, licensed for 637 beds and employing more than 6,000 people. MMC’s unique role as both a community hospital and a referral center requires an unparalleled depth and breadth of services, including the state’s only allopathic medical school through a partnership with Tufts University School of Medicine and a world-class biomedical research center, the Maine Medical Center Research Institute. As a nonprofit institution, Maine Medical Center provides nearly 23 percent of all the charity care delivered in Maine.

Community Dental Organization of Maine (Please visit www.communitydentalme.org), a not for profit primary dental care service founded in 1918, has been the most effective organization for comprehensive services in southern Maine for populations at risk as well as the general population. These clinics are positioned Strategically to capture those areas with gaps in the safety network for oral health care. Their mission for service is in alignment with that of TUSDM and is well suited to engage resident advanced clinical training. The organization has been hosting TUSDM dental externs for over 20 years, with appointed and
calibrated TUSDM Faculty, and is excited and committed to be involved in resident training.