Advanced Education in
ORAL & MAXILLOFACIAL RADIOLOGY (OMFR)
A Clinical Continuing Education Program

OVERVIEW
This CE program is specifically designed for the dentist who wishes to gain a scientific background and additional training in the practice of Oral & Maxillofacial Radiology. The educational program will focus on all aspects of Oral & Maxillofacial Radiology such as intraoral and extraoral imaging, diagnostic radiology of jaws, neck and orofacial region including salivary glands. The program will also emphasize the identification and evaluation of sites for implant placement and will give necessary knowledge to evaluate the root form implants radiographically.

PROGRAM DESIGN/OBJECTIVES
Since knowledge of Oral & Maxillofacial Radiology is essential for the diagnosis and success of any treatment plan, a thorough knowledge of the anatomy and pathology of the oral and maxillofacial structures is crucial. To become competent in the practice of Oral and Maxillofacial Radiology, the clinician must perform a proper assessment of patients including history taking and physical examination, obtain appropriate radiographs and develop a management plan. The management plan must be evidence-based and consistent with standards of care set forth by the scientific literature.

The educational program is designed to provide the participant with the necessary background for the practice of Oral and Maxillofacial Radiology. Although the focus will be on OMFR, the resident will be exposed to several areas including medicine, laboratory diagnostics, oral pathology, oral oncology, orofacial pain, pharmacology, nutrition and geriatric dentistry as well as management of medical emergencies in a dental setting through didactic/clinical exposure at the Rutgers School of Dental Medicine. Based on this philosophy, the participant will have a challenging opportunity to integrate and synthesize basic science and clinical knowledge and apply this information in diagnostic work up, medical risk assessment for dental care and management of dental patients.

EDUCATIONAL REQUIREMENTS
The Advanced Education Oral and Maxillofacial Radiology program offers the participant a collegial environment to accomplish his/her personal objectives. The curriculum is comprised of didactic assignments, clinical experience, intramural rotations, teaching responsibilities. The didactic learning experiences include seminars, lectures, workshops, and self-study activities. Although there is considerable flexibility in the selection and sequencing of the didactic and clinical components, each participant is required to attend didactic sessions designed to provide the necessary background for management of Radiology patients. An important part of the program is the clinical experience which comprises nearly half of the scheduled activities commencing in the first quarter and continuing across the entire Program. Included in the program is the option of attendance in basic science and oral biology courses designed to give the student a strong science and analytical foundation applicable to care of radiology patients. The participants are also encouraged to complete a paper of publishable
quality for submission to a refereed scientific journal on a topic to be mutually determined by the Participant and program director. The participant is encouraged to attend at least one annual session of the American Academy of Oral and Maxillofacial Radiology and preferably present a paper in that conference. The participant also has the opportunity to participate in research projects conducted within the department. The Advanced Education in OMFR program may be combined with a Master’s program over a two to three year period (see below for details)

**SCHEDULE**

- This Advanced Education program is an eleven-month experience starting on July 1 each year; Mondays through Fridays, from 8 a.m. to 5 p.m. each day.
- Holidays and vacations coincide with the post-graduate schedule.
- Participant will be allowed one day a week out of clinic to pursue research or other endeavors pertaining to the program starting in the fall.
- Participants will be allowed five (5) additional vacation days and three (3) sick days.
- The school may also close for severe weather events.

**CRITERIA FOR SELECTION**

Applicants should be dental professionals seeking to expand their experience and knowledge in the discipline of Oral and Maxillofacial Radiology. Advanced education and demonstrable interest in the diagnostic sciences is desirable. Proficiency in spoken and written English is required for success in the program. All candidates should be available for an interview at the Rutgers School of Dental Medicine prior to acceptance. A telephone interview will be granted if travel would impose a hardship.

**COURSE COMPONENTS/DISCIPLINES**

The curricular content for the Advanced Education in Oral and Maxillofacial Radiology are listed below and each requirement is briefly described on the following pages. Although a specific time period is allocated for each educational activity, the actual time listed is subject to change.

- **Dent 5010** Foundation of Oral Biology (selective/elective)
- **Dent 5020** Advanced Biomedical Sciences (selective/elective)
- **OM 8501** Oral Medicine Seminar Series
- **OM 8502** Oral Pathology Seminar Series
- **OFP 701** Orofacial Pain Seminar Series
- **DSCI 8305** Oral Radiology Clinic - Room C 735, OMFR Clinic

**CONTACT HOURS:**
- Clinic: 60 (Varies by participant)
- Days & Time: Monday AM/Tuesday/Wednesday/Thursday/Friday
  - 10 AM - 1 PM, 2 PM - 4:45 PM

- **OM 8505** Oral Pathology rotation
- **DSCI 8412** Oral Radiology – Advanced Imaging Techniques

**REQUIRED TEXTS:**
**Dent 5010 and 5020: Foundation of Oral Biology and Advanced Biomedical Science for Dentistry (82 hours):**

These courses, which are a requirement for all postdoctoral graduate students, are given over a two-year period. Because the Program is only 11-months, students have the option of auditing any of the courses listed below depending upon scheduling and possible conflicts. The participants in the combined Master’s program are required to attend and successfully complete first and second years of postgraduate core curriculum. Listed below are a few of the postgraduate courses particularly relevant to the field of OMFR. Tuesdays 8:00 am to 10:00 am (September to June)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Head and Neck Anatomy</td>
<td>12</td>
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<tr>
<td>Pathobiology</td>
<td>18</td>
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<tr>
<td>Oral Pathology</td>
<td>20</td>
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<tr>
<td>Orofacial Pain Disorders</td>
<td>8</td>
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<tr>
<td>Clinical Pharmacology &amp; Therapeutics</td>
<td>14</td>
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<tr>
<td>Embryology &amp; genetics</td>
<td>10</td>
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**OM-8501: Oral Medicine Seminar Series**

This seminar series will focus on reinforcing knowledge of topics within the field of Oral Medicine. The curriculum is designed to review the fundamentals of Oral Medicine including oral mucosal lesions, salivary gland disease, and medically complex patient issues. Emphasis will be placed on applying this information to clinical practice. Attendance is mandatory for all OMFR AEP participants.

**OM-8502: Oral Pathology Seminar Series**

This program provides a comprehensive review of oral and maxillofacial pathology and consists of introductory presentations, clinical pathologic conferences and histopathologic sessions using a multi-headed microscope. Topics covered in the introductory lectures include evaluation and management of oral mucosal diseases, and evaluation and management of hard tissue conditions affecting maxillofacial region, principles of radiographic interpretation and differential diagnosis of jaw lesions. Attendance in this seminar series is mandatory for all OMFR AEP participants.

**OFP-701: Orofacial Pain Seminar Series**

This seminar series is offered by the division of Orofacial Pain and focus on reinforcing knowledge of topics within the field of Orofacial and its application to clinical practice. The curriculum is designed to review the fundamentals of Orofacial pain including temporomandibular disorders, musculoskeletal conditions, chemosensory disorders and neuropathic pain disorders. The attendance in this seminar is mandatory for all OMFR AEP participants.

**Medically Complex Clinic**

The participant will have the opportunity to observe patients in the Medically Complex clinic that provides comprehensive oral/dental care for patients with cardiovascular, renal, immune or hematologic compromise, organ transplantation or head and neck malignancy. The participant will attend at least one clinical session per week.
Orofacial Pain Clinic

The participant will also have the opportunity to attend orofacial pain where patients with temporomandibular joint problems, acute and chronic orofacial pain and orofacial neurosensory disorders are evaluated and treated. The participant will attend at least one clinical session per week.

OM-8505: Oral Pathology Rotation

The participant will receive advanced training in oral pathology and enhance their diagnostic skills by participating in the oral pathology service at the RSDM. The Participant will also learn about tissue processing procedures and slide preparation. The Oral Medicine/Oral Pathology Microscope Conference is held complementary to Oral Pathology Seminar Series and is a forum for microscopic review of biopsies submitted to RSDM biopsy service as well as interesting cases presented for learning and discussion of histopathology. The goal is to enhance participant’s skills in microscopic interpretation and reaching a definitive diagnosis of diseases affecting oral and maxillofacial region.

The Oral Pathology Quality Assurance and Consensus Conference meet weekly to microscopically review and discuss the challenging cases that have been accessioned in the RSDM Biopsy Service. The participants closely examine the lesions of inflammatory, immune mediated and neoplastic nature as well as other relevant cases for consensus and educational purposes. This educational program will serve to enhance the knowledge of the Oral Pathology and mucosal lesions.

DSCI 8305: Oral Radiology Clinic

The participant will receive training in diagnostic head and neck imaging and enhance their ability to utilize the broad scope of imaging modalities including oral radiographs, panoramic radiology, plain films, digital, tomography, sialography, computed tomography, magnetic resonance imaging and Scintigraphy. The purpose of this clinic experience is to gain clinical experience and didactic knowledge in standard and advanced oral and maxillofacial imaging techniques and interpretation. The clinic experience will provide the participant with an extensive review of image selection, interpretation, and radiographic technique with particular emphasis on radiographic manifestations of local and systemic diseases in the head and neck region.

Academic Activities and Research In The Division of Oral and Maxillofacial Radiology:

In addition to didactic core program, the Participant will have the opportunity to attend in a variety of academic activities offered by the Division of Oral & Maxillofacial Radiology.

Division of Oral Medicine Literature Review (Journal Club)

The journal club is a dynamic forum for critical thinking and examination of pertinent, current scientific literature. Residents and C.E. Participants in the division of oral medicine will meet regularly month to discuss and critique an assigned article with focus on evidence –based practice of dentistry and medicine. Presentations are made by each participant on a rotating schedule.

Tumor Board

A multidisciplinary forum where, otolaryngology/head & neck surgery, radiology, pathology, radiation/hemato-oncology, oral medicine and dentists meet to discuss comprehensive management of
current patients with head and neck cancer. During this multidisciplinary approach, discussion will focus on diagnosis and treatment modalities.

**Case Presentation**

Residents, faculty and participants in the Division of Oral Maxillofacial Radiology actively participate in case presentation sessions. This is an opportunity for students to present documented cases related to the diagnostic challenges in medically complex patients as imaging is an integral part of the management.

**Treatment Planning Seminar**

Through small group discussions and case-based learning, residents, participants and faculty discuss comprehensive oral/dental management of medically complex patients referred to the Oral Medicine Clinic. The participant will also have the opportunity to attend the weekly treatment planning seminars offered through the Division of Oral Diagnosis aimed at reinforcing relevant concepts to clinical practice.

**Advanced topics in Dental Medicine**

A series of post-graduate seminars relevant to medical and dental science are presented by the division faculty or invited speakers. Advanced topics focused on clinical dentistry including Endodontics, Periodontics, Prosthodontics and implant dentistry are presented and discussed in an open forum.

**EVALUATION OF PARTICIPANT**

For satisfactory completion of the program, the Participant must:

- Complete attendance requirements of the program.
- Demonstrate didactic and clinical knowledge in Oral & Maxillofacial Radiology as determined by the director and attending faculty in the Division of Oral & Maxillofacial Radiology.
- Successfully complete a comprehensive written or oral examination at the conclusion of the program.
- Submit a written paper of publishable quality. The Program Director and Participant will mutually agree upon topic.

**FACILITIES**

The Rutgers School of Dental Medicine is located on the Rutgers Biomedical and Health Sciences Newark Campus. The medical and dental schools, graduate school of biomedical sciences, and the University Hospital are grouped together on an attractive campus with convenient private parking.
FACULTY

Department of Diagnostic Sciences

STEVEN R. SINGER, DDS - Program Director
Chair and Professor,
Department of Diagnostic Sciences
Acting Director, Division of Oral and Maxillofacial Radiology

GARY M. HEIR, DMD
Clinical Professor, Division of Orofacial Pain

RICHARD PERTES, DDS
Clinical Professor, Division of Orofacial Pain

MEL MUPPARAPU, DMD, MDS,
Clinical Professor,
Division of Oral & Maxillofacial Radiology

SAMUEL QUEK, DMD
Professor and Director,
Division of Oral Medicine

HAROLD V. COHEN, DDS
Professor and Director,
Division of Oral Medicine

EVAN SPIVACK, DDS
Professor and Director,
Division of Oral Medicine

GARY VITALLETI, DMD
Associate Professor and Director,
Division of Oral Diagnosis

ADMISSION REQUIREMENTS

- Have a DDS/DMD degree or its equivalent from an accredited dental school.
- Payment of non-refundable applicant fee of $200 U.S. (send with application).
- Submission of a completed application form, include:
  - Documentation of your Objectives and Goals (see page 2 of this form).
  - Curriculum Vitae (attach a small photo if available).
  - Copies, verified by your dental school, of your Transcript and Dental School Diploma.
  - Two to three original Letters of Recommendation (see page 4 of this form).
- Applicants with foreign degrees will be considered based upon an evaluation of their academic credentials. An original Evaluation Report from one of the following is required:
  - Educational Credential Evaluators (ECE);
  - World Education Services (WES);
  - Global Language Services, Inc.; or
  - National Assoc. of Credential Evaluation Services (NACES).
- Applicants with English as a second language must attain a TOEFL score of 80 or higher; or an International English Language Testing System (IELTS) overall score of 6 or greater. Submit an original report.
- Although Graduate Record Examination (GRE) and National Board scores are not required, but may be submitted in support of the application.
- Attend a personal interview when possible.
- Be a citizen or a permanent resident of the United States, or a foreign national with a visa status acceptable to the CE program.

Deadline for submission of application: September 15, 2016 for the July 1, 2017 start date.
Further Requirements

Upon notification of preliminary acceptance into the program, the applicant will also be required to:

- Pay a non-refundable deposit of $1,000 (U.S.) within 20 days of notification of acceptance.
- Submit Health and Immunization Forms per University policy (see “Student Immunization and Health Requirements”). Completed forms must be submitted 2 months prior to the start of the program. Participant may not start their program until they have been cleared by Student Health Services.
- Submit Cardio Pulmonary Resuscitation (CPR) certification that will be valid for duration of program.
- Be cleared by a Background Check; an additional fee is required for this.
- Provide proof of Health Insurance.
- Licensed U.S. Dentists provide proof of Liability Insurance.
- Full tuition is due three (3) weeks prior to the start of the program.

TUITION

The tuition for this Advanced Education program for the academic year 2017-2018 will be a total of $25,000 (US). Some additional fees and expenses may be applicable. A non-refundable deposit of $1,000 is required to hold your place in the program; payment must be received within 20 days of notification of acceptance. Full tuition is due three weeks prior to the start of the program.

CANCELLATION POLICY

To participate in this program you must be pre-registered with the Office of Continuing Dental Education. No refunds of any tuition paid will be made after program has started.

CREDIT

This Advanced Education program offers a unique opportunity for didactic and hands-on clinical experience in the Department of Diagnostic Sciences. It is a non-matriculated, continuing dental education program. If participant completes the program as designed, they will earn 1,430 continuing education credit hours.

HOW TO APPLY

Submit completed application to:
Rutgers School of Dental Medicine
Continuing Dental Education
Attn: Corinne Swass-Fogarty
110 Bergen Street, B701
Newark, NJ 07103

For more information:
Email: cde@sdm.rutgers.edu

Link to the Application Form can be found on this webpage:
http://sdm.rutgers.edu/CDE/advanced_programs/index.html