The Commission directed that the proposed revision of the Oral and Maxillofacial Radiology Standards be distributed to the appropriate communities of interest for review and comment, with comment due June 1, 2013.

Written comments can be directed to tookss@ada.org or mailed to:
ATTN: Sherin Tookss, 19th Floor
Commission on Dental Accreditation
211 East Chicago Avenue
Chicago, IL 60611

Accreditation Standards for Advanced Specialty Education Programs in Oral and Maxillofacial Radiology

**Underline** indicates addition
**Strikethrough** indicates deletion
Accreditation Standards for
Advanced Specialty Education Programs in
Oral and Maxillofacial Radiology

Commission on Dental Accreditation
American Dental Association
211 East Chicago Avenue
Chicago, Illinois 60611-2678
(312) 440-4653
www.ada.org

Oral and Maxillofacial Radiology is the specialty of dentistry and discipline of radiology concerned with the production and interpretation of images and data produced by all modalities of radiant energy that are used for the diagnosis and management of diseases, disorders and conditions of the oral and maxillofacial region. (Adopted April 2001)
Accreditation Standards for Advanced Specialty Education Programs in Oral and Maxillofacial Radiology

Document Revision History

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## Standards

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Introduction

The science of oral and maxillofacial radiology is based on principles of physics, chemistry and biology (both normal and abnormal). An in-depth knowledge of the principles and applications of all diagnostic imaging modalities used in dentistry and other health care professions is fundamental to the specialty.

An in-depth knowledge of normal anatomy, as well as an understanding of the causes of diseases, their processes and effects, together with associated alterations in the head and neck are essential to the practice of oral and maxillofacial radiology. A familiarity with An understanding of the appearance of normal anatomy and disease processes in the rest of the body is important. Of equal importance is an in-depth knowledge of the use of radiation, magnetic fields and other imaging agents in a manner that minimizes risks to the patient, operator and the public.

An oral and maxillofacial radiologist must have the ability, knowledge and skill to:

1) conduct a clinical head and neck examination, take and evaluate medical and dental histories to determine appropriate imaging investigations;

2) prescribe, make or supervise the making of radiographs and utilize other imaging techniques relevant to dentistry;

3) advise on radiation protection and safety;

4) interpret radiographs and other diagnostic images imaging studies;

5) prepare written interpretations and consultative reports; and

6) communicate effectively with colleagues and evaluate critically the scientific literature in order to contribute to maintaining competency.
Mission Statement of the Commission on Dental Accreditation

The Commission on Dental Accreditation serves the public by establishing, maintaining and applying standards that ensure the quality and continuous improvement of dental and dental-related education and reflect the evolving practice of dentistry. The scope of the Commission on Dental Accreditation encompasses dental, advanced dental and allied dental education programs.

Commission on Dental Accreditation
Revised: January 30, 2001
Accreditation Status Definitions

Programs That Are Fully Operational:

Approval (without reporting requirements): An accreditation classification granted to an educational program indicating that the program achieves or exceeds the basic requirements for accreditation.

Approval (with reporting requirements): An accreditation classification granted to an educational program indicating that specific deficiencies or weaknesses exist in one or more areas of the program. Evidence of compliance with the cited standards must be demonstrated within eighteen (18) months if the program is between one and two years in length or two years if the program is at least two years in length. If the deficiencies are not corrected within the specified time period, accreditation will be withdrawn, unless the Commission extends the period for achieving compliance for good cause. Circumstances under which an extension for good cause would be granted include, but are not limited to:

- sudden changes in institutional commitment;
- natural disaster which affects affiliated agreements between institutions; faculty support; or facilities;
- changes in institutional accreditation;
- interruption of an educational program due to unforeseen circumstances that take faculty, administrators or students away from the program

Programs That Are Not Fully Operational:

A program which has not enrolled and graduated at least one class of students/residents and does not have students/residents enrolled in each year of the program is defined by the Commission as not fully operational. The accreditation classification granted by the Commission on Dental Accreditation to programs which are not fully operational is “initial accreditation.” When initial accreditation status is granted to a developing education program, it is in effect through the projected enrollment date. However, if enrollment of the first class is delayed for two consecutive years following the projected enrollment date, the program’s accreditation will be discontinued, and the institution must reapply for initial accreditation and update pertinent information on program development. Following this, the Commission will reconsider granting initial accreditation status.

Initial Accreditation is the accreditation classification granted to any dental, advanced dental or allied dental education program which is not yet fully operational. This accreditation classification provides evidence to educational institutions, licensing bodies, government or other granting agencies that, at the time of initial evaluation(s), the developing education program has the potential for meeting the standards set forth in the requirements for an accredited educational program for the specific occupational area. The classification “initial accreditation” is granted based upon one or more site evaluation visit(s).
Preface

Maintaining and improving the quality of advanced education in the nationally recognized specialty areas of dentistry is a primary aim of the Commission on Dental Accreditation. The Commission is recognized by the public, the profession, and the United States Department of Education as the specialized accrediting agency in dentistry.

Accreditation of advanced specialty education programs is a voluntary effort of all parties involved. The process of accreditation assures students/residents, specialty boards and the public that accredited training programs are in compliance with published standards.

Accreditation is extended to institutions offering acceptable programs in the following recognized specialty areas of dental practice: dental public health, endodontics, oral and maxillofacial pathology, oral and maxillofacial radiology, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, pediatric dentistry, periodontics and prosthodontics. Program accreditation will be withdrawn when the training program no longer conforms to the standards as specified in this document, when all first-year positions remain vacant for a period of two years or when a program fails to respond to requests for program information. Exceptions for non-enrollment may be made by the Commission for programs with “approval without reporting requirements” status upon receipt of a formal request from an institution stating reasons why the status of the program should not be withdrawn.

Advanced education in a recognized specialty area of dentistry may be offered on either a certificate-only or certificate and degree-granting basis.

Accreditation actions by the Commission on Dental Accreditation are based upon information gained through written submissions by program directors and evaluations made on site by assigned consultants. The Commission has established review committees in each of the recognized specialties to review site visit and progress reports and make recommendations to the Commission. Review committees are composed of representatives selected by the specialties and their certifying boards. The Commission has the ultimate responsibility for determining a program’s accreditation status. The Commission is also responsible for adjudication of appeals of adverse decisions and has established policies and procedures for appeal. A copy of policies and procedures may be obtained from the Director, Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, Illinois 60611.

This document constitutes the standards by which the Commission on Dental Accreditation and its consultants will evaluate advanced programs in each specialty for accreditation purposes. The Commission on Dental Accreditation establishes general standards which are common to all dental specialties, institutions and programs regardless of specialty. Each specialty develops specialty-specific standards for education programs in its specialty. The general and specialty-specific standards, subsequent to approval by the Commission on Dental Accreditation, set forth the standards for the educational content, instructional activities, patient care responsibilities, supervision and facilities that should be provided by programs in the particular specialty.

As a learned profession entrusted by the public to provide for its oral health and general well-being, the profession provides care without regard to race, color, religion, gender, national origin, age, disability, sexual orientation, status with respect to public assistance, or marital status.

Oral and Maxillofacial Radiology Standards
The profession has a duty to consider patients’ preferences, and their social, economic and emotional circumstances when providing care, as well as to attend to patients whose medical, physical and psychological or social situation make it necessary to modify normal dental routines in order to provide dental treatment. These individuals include, but are not limited to, people with developmental disabilities, cognitive impairments, complex medical problems, significant physical limitations, and the vulnerable elderly. The Standards reconfirm and emphasize the importance of educational processes and goals for comprehensive patient care and encourage patient-centered approaches in teaching, research and oral health care delivery.

The profession adheres to ethical principles of honesty, compassion, kindness, respect, integrity, fairness and charity, as exemplified in the ADA Principles of Ethics and Code of Professional Conduct and the ADEA Statement on Professionalism in Dental Education.

General standards are identified by the use of a single numerical listing (e.g., 1). Specialty-specific standards are identified by the use of multiple numerical listings (e.g. 1-1, 1-1.2, 1-2).

**REPORTING PROGRAM CHANGES IN ACCREDITED PROGRAMS**

The Commission on Dental Accreditation recognizes that education and accreditation are dynamic, not static, processes. Ongoing review and evaluation often lead to changes in an educational program. The Commission views change as part of a healthy educational process and encourages programs to make them as part of their normal operating procedures.

At times, however, more significant changes occur in a program. Changes have a direct and significant impact on the program’s potential ability to comply with the accreditation standards. These changes tend to occur in the areas of finances, program administration, enrollment, curriculum and clinical/laboratory facilities, but may also occur in other areas. Reporting changes in the Annual Survey does not preclude the requirement to report changes to the Commission. Failure to report and receive approval in advance of any increase in enrollment or other change, using the Guidelines for Reporting Program Change, may result in review by the Commission, a special site visit, and may jeopardize the program’s accreditation status. Advanced specialty education programs must adhere to the Policy on Enrollment Increases in Advanced Specialty Programs.

The Commission’s Policy on Integrity also applies to the reporting of changes. If the Commission determines that an intentional breach of integrity has occurred, the Commission will immediately notify the chief executive officer of the institution of its intent to withdraw the accreditation of the program(s) at its next scheduled meeting.

When a change is planned, Commission staff should be consulted to determine reporting requirements. This report must document how the program will continue to meet accreditation standards. The Commission’s Guidelines for Reporting Program Changes are available on the ADA
website and may clarify what constitutes a change and provide guidance in adequately explaining and documenting such changes.

The following examples illustrate, but are not limited to, changes that must be reported at least thirty (30) days prior to a regularly scheduled, semi-annual Review Committee meeting and must be reviewed by the appropriate Review Committee and approved by the Commission to ensure that the program continues to meet the accreditation standards:

- Establishment of Off-Campus Sites
- Transfer of sponsorship from one institution to another;
- Moving a program from one geographic site to another;
- Program director qualifications not being in compliance with the standards;
- Substantial increase in program enrollment beyond the apparent resources of the program. (Specialty programs see Policy on Enrollment Increases In Advanced Specialty Programs);
- Significant change in the nature of the program’s financial support;
- Curriculum changes that eliminate content areas required by the standards;
- Modification or reduction in faculty or support staff;
- Increase in the required length of the program; and/or
- Significant reduction of program dental facilities and
- Expansion of an existing dental hygiene program will only be considered after the program has demonstrated success by graduating the first class, measured outcomes of the academic program, and received approval without reporting requirements.

The Commission recognizes that unexpected changes may occur. If an unexpected change occurs, it must be reported no more than 30 days following the occurrence. Unexpected changes may be the result of sudden changes in institutional commitment, affiliated agreements between institutions, faculty support, or facility compromise resulting from natural disaster. Failure to proactively plan for change will not be considered an unexpected change. Depending upon the timing and nature of the change, appropriate investigative procedures including a site visit may be warranted.

The following examples illustrate, but are not limited to, additional program changes that must be reported in writing at least thirty (30) days prior to anticipated implementation of the change and are not reviewed by the Review Committee and the Commission but are reviewed at the next site visit:

- Adding content to individual courses;
- Updating or replacing laboratory/clinical equipment;
- Expansion or relocation of dental facilities within the same institution;
- Re-sequencing specific courses within the curriculum; and/or
- Change in program director. A copy of the new or acting program director’s curriculum vitae should be provided to Commission staff.

Revised: 2/12, 8/11, 8/10, 7/09, 7/07, 8/02, 7/97; Reaffirmed: 7/07, 7/01, 5/90; CODA: 05/91:11
POLICY ON ENROLLMENT INCREASES IN ADVANCED DENTAL SPECIALTY PROGRAMS

A program considering or planning an enrollment increase, or any other substantive change, should notify the Commission early in the program’s planning. Such notification will provide an opportunity for the program to seek consultation from Commission staff regarding the potential effect of the proposed change on the accreditation status and the procedures to be followed. A request for an increase in enrollment with all supporting documentation must be submitted in writing to the Commission one (1) month prior to a regularly scheduled semiannual Review Committee meeting. A program must receive Commission approval for an increase in enrollment prior to publishing or announcing the additional positions or accepting additional students/residents.

The Commission will not retroactively approve enrollment increases without a special focused site visit. Special circumstances may be considered on a case-by-case basis, including, but not limited to, temporary enrollment increases due to:

- Student/Resident extending program length due to illness, incomplete projects/clinical assignments, or concurrent enrollment in another program;
- Unexpected loss of an enrollee and need to maintain balance of manpower needs;
- Urgent manpower needs demanded by U.S. armed forces; and
- Natural disasters.

Failure to comply with this policy will jeopardize the program’s accreditation status, up to and including withdrawal of accreditation. If a program has enrolled beyond the approved number of students/residents without prior approval by the Commission, a special focused site visit will be required at the program’s expense.

If the focused visit determines that the program does not have the resources to support the additional student(s)/resident(s), the program will be placed on “intent to withdraw” status and no additional student(s)/resident(s) beyond the previously approved number may be admitted to the program until the deficiencies have been rectified and approved by the Commission. Student(s)/Resident(s) who have already been formally accepted or enrolled in the program will be allowed to continue.
Definitions of Terms Used in Oral and Maxillofacial Radiology Accreditation Standards

The terms used in this document (i.e. shall, must, should, can and may) were selected carefully and indicate the relative weight that the Commission attaches to each statement. The definitions of these words used in the Standards are as follows:

**Must or Shall:** Indicates an imperative need and/or duty; an essential or indispensable item; mandatory.

**Intent:** Intent statements are presented to provide clarification to the advanced specialty education programs in oral and maxillofacial radiology in the application of and in connection with compliance with the Accreditation Standards for Advanced Specialty Education Programs in Oral and Maxillofacial Radiology. The statements of intent set forth some of the reasons and purposes for the particular Standards. As such, these statements are not exclusive or exhaustive. Other purposes may apply.

**Examples of evidence to demonstrate compliance include:** Desirable condition, practice or documentation indicating the freedom or liberty to follow a suggested alternative.

**Should:** Indicates a method to achieve the standards.

**May or Could:** Indicates freedom or liberty to follow a suggested alternative.

**Levels of Knowledge:**

In-depth: A thorough knowledge of concepts and theories for the purpose of critical analysis and the synthesis of more complete understanding.
Understanding: Adequate knowledge with the ability to apply.
Familiarity: A simplified knowledge for the purpose of orientation and recognition of general principles.

**Levels of Skills:**

Proficient: The level of skill beyond competency. It is that level of skill acquired through advanced training or the level of skill attained when a particular activity is accomplished with repeated quality and a more efficient utilization of time.
Competent: The level of skill displaying special ability or knowledge derived from training and experience.
Exposed: The level of skill attained by observation of or participation in a particular activity.
Graduates of specialty education programs provide unique services to the public. While there is some commonality with services provided by specialists and general dentists, as well as commonalities among the specialties, the educational standards developed to prepare graduates of specialty programs for independent practice should not be viewed as a continuum from general dentistry. Each specialty defines the educational experience best suited to prepare its graduates to provide that unique specialty service.

**Competencies:** Statements in the specialty standards describing the knowledge, skills and values expected of graduates of specialty programs.

**Competent:** Having the knowledge, skills and values required of the graduates to begin independent, unsupervised specialty practice.

**In-depth:** Characterized by thorough knowledge of concepts and theories for the purpose of critical analysis and synthesis.

**Understanding:** Knowledge and recognition of the principles and procedures involved in a particular concept or activity.

Other Terms:

Institution (or organizational unit of an institution): a dental, medical or public health school, patient care facility, private practice office or other entity that engages in advanced specialty education.

Sponsoring institution: primary responsibility for advanced specialty education programs.

Affiliated institution: support responsibility for advanced specialty education programs.

Advanced specialty education student/resident: a student/resident enrolled in an accredited advanced specialty education program.

A degree-granting program is a planned sequence of advanced courses leading to a master’s or doctoral degree granted by a recognized and accredited educational institution.

A certificate program is a planned sequence of advanced courses that leads to a certificate of completion in a specialty recognized by the American Dental Association.

Student/Resident: The individual enrolled in an accredited advanced education program.

International Dental School: A dental school located outside the United States and Canada.
Evidence-based dentistry: Evidence-based dentistry is an approach to oral health care that requires the judicious integration of systematic assessments of clinically relevant scientific evidence, relating to the patient’s oral and medical condition and history, with the dentist’s clinical expertise and the patient’s treatment needs and preferences.

Formative Assessment*: guiding future learning, providing reassurance, promoting reflection, and shaping values; providing benchmarks to orient the learner who is approaching a relatively unstructured body of knowledge; and reinforcing students’ intrinsic motivation to learn and inspire them to set higher standards for themselves.

Summative Assessment*: making an overall judgment about competence, fitness to practice, or qualification for advancement to higher levels of responsibility; and providing professional self-regulation and accountability.

STANDARD 1 - INSTITUTIONAL COMMITMENT/PROGRAM EFFECTIVENESS

The program must develop clearly stated goals and objectives appropriate to advanced specialty education, addressing education, patient care, research and service. Planning for, evaluation of and improvement of educational quality for the program must be broad-based, systematic, continuous and designed to promote achievement of program goals related to education, patient care, research and service.

The program must document its effectiveness using a formal and ongoing outcomes assessment process to include measures of advanced education student/resident achievement.

**Intent:** The Commission on Dental Accreditation expects each program to define its own goals and objectives for preparing individuals for the practice of oral and maxillofacial radiology and that one of the program goals is to comprehensively prepare competent individuals to initially practice oral and maxillofacial radiology. The outcomes process includes steps to: (a) develop clear, measurable goals and objectives consistent with the program’s purpose/mission; (b) develop procedures for evaluating the extent to which the goals and objectives are met; (c) collect and maintain data in an ongoing and systematic manner; (d) analyze the data collected and share the results with appropriate audiences; (e) identify and implement corrective actions to strengthen the program; and (f) review the assessment plan, revise as appropriate, and continue the cyclical process.

The financial resources must be sufficient to support the program’s stated goals and objectives.

**Intent:** The institution should have the financial resources required to develop and sustain the program on a continuing basis. The program should have the ability to employ an adequate number of full-time faculty, purchase and maintain equipment, procure supplies, reference material and teaching aids as reflected in annual budget appropriations. Financial allocations should ensure that the program will be in a competitive position to recruit and retain qualified faculty. Annual appropriations should provide for innovations and changes necessary to reflect current concepts of education in the advanced specialty discipline. The Commission will assess the adequacy of financial support on the basis of current appropriations and the stability of sources of funding for the program.

The sponsoring institution must ensure that support from entities outside of the institution does not compromise the teaching, clinical and research components of the program.

**Examples of evidence to demonstrate compliance may include:**
- Written agreement(s)
- Contract(s)/Agreement(s) between the institution/program and sponsor(s) related to facilities, funding, and faculty financial support.
Advanced specialty education programs **must** be sponsored by institutions, which are properly chartered, and licensed to operate and offer instruction leading to degrees, diplomas or certificates with recognized education validity. Hospitals that sponsor advanced specialty education programs **must** be accredited by an accreditation organization recognized by the Centers for Medicare and Medicaid Services (CMS). Educational institutions that sponsor advanced specialty education programs **must** be accredited by an agency recognized by the United States Department of Education. The bylaws, rules and regulations of hospitals that sponsor or provide a substantial portion of advanced specialty education programs **must** ensure that dentists are eligible for medical staff membership and privileges including the right to vote, hold office, serve on medical staff committees and admit, manage and discharge patients.

The authority and final responsibility for curriculum development and approval, student/resident selection, faculty selection and administrative matters **must** rest within the sponsoring institution.

**The institution/program must have a formal system of quality assurance for programs that provide patient care.**

The position of the program in the administrative structure **must** be consistent with that of other parallel programs within the institution and the program director **must** have the authority responsibility, and privileges necessary to manage the program.

1-1 Those portions of advanced oral and maxillofacial radiology education programs in medical radiology **must** be in programs approved and accredited by the Accreditation Council **of** for Graduate Medical Education.

1-2 The program director and faculty **must** actively assess the outcomes of the oral and maxillofacial radiology program in terms of whether it is achieving its educational objectives.

**AFFILIATIONS**

The primary sponsor of the educational program **must** accept full responsibility for the quality of education provided in all affiliated institutions.

Documentary evidence of agreements, approved by the sponsoring and relevant affiliated institutions, **must** be available. The following items **must** be covered in such inter-institutional agreements:

- a. Designation of a single program director;
- b. The teaching staff;
- c. The educational objectives of the program;
- d. The period of assignment of students/residents; and
- e. Each institution’s financial commitment.
Intent: An “institution (or organizational unit of an institution)” is defined as a dental, medical or public health school, patient care facility, or other entity that engages in advanced specialty education. The items that are covered in inter-institutional agreements do not have to be contained in a single document. They may be included in multiple agreements, both formal and informal (e.g., addenda and letters of mutual understanding).

POLICY STATEMENT ON ACCREDITATION OF OFF-CAMPUS SITES

The Commission on Dental Accreditation must be informed when a program accredited by the Commission plans to initiate an off-campus site (distance site and/or additional training site not located on the main campus). The Commission must be informed in writing at least thirty (30) days prior to a regularly scheduled semi-annual Review Committee meeting. A program must receive Commission on Dental Accreditation approval of the off-campus site prior to initiating use of the site.

Generally, only programs without reporting requirements will be approved to initiate educational experiences at off-campus sites. The Commission must ensure that the necessary education as defined by the standards is available, and appropriate resources (adequate faculty and staff, availability of patient experiences, and distance learning provisions) are provided to all students/residents enrolled in an accredited program. When the Commission has received notification that an institution plans to offer its accredited program at an off-campus site, the Commission will conduct a special focused site visit to each off-campus location where a significant portion of each student’s/resident’s educational experience is provided, based on the specifics of the program, the accreditation standards, and Commission policies and procedures, or if other cause exists for such a visit as determined by the Commission. After the initial visit, each site will continue to be visited during the regularly scheduled site visit to the program.

The Commission recognizes that dental assisting and dental laboratory technology programs utilize numerous extramural dental offices and laboratories to provide students with clinical/laboratory practice experience. In this instance, the Commission will randomly select and visit several facilities during the site visit to a program.

Expansion of an existing dental hygiene program will only be considered after the program has demonstrated success by graduating the first class, measured outcomes of the academic program, and received approval without reporting requirements.

All programs accredited by the Commission pay an annual fee. Additional fees will be based on actual accreditation costs incurred during the visit to on and off-campus locations. The Commission office should be contacted for current information on fees.

Revised: 2/12, 8/10, 7/09, 7/07; Reaffirmed: 2/02, 1/06; Adopted: 07/98
STANDARD 2 - PROGRAM DIRECTOR AND TEACHING STAFF

The program must be administered by a one director who is board certified in the respective specialty of the program. (All program directors appointed after January 1, 1997, who have not previously served as program directors, must be board certified.)

Intent: The director of an advanced specialty education program is to be certified by an ADA-recognized certifying board in the specialty. Board certification is to be active. The board certification requirement of Standard 2 is also applicable to an interim/acting program director. A program with a director who is not board certified but who has previous experience as an interim/acting program director in a Commission-accredited program prior to 1997 is not considered in compliance with Standard 2.

Examples of evidence to demonstrate compliance may include:
   For board certified directors: Copy of board certification certificate; letter from board attesting to current/active board certification.
   (For non-board certified directors who served prior to January 1, 1997: Current CV identifying previous directorship in a Commission on Dental Accreditation- or Commission on Dental Accreditation of Canada-accredited advanced specialty program in the respective discipline; letter from the previous employing institution verifying service.)

The program director must be appointed to the sponsoring institution and have sufficient authority and time to achieve the educational goals of the program and assess the program’s effectiveness in meeting its goals.

Documentation of all program activities must be ensured by the program director and available for review.

2-1 The oral and maxillofacial radiology program must be directed by one individual who has a full-time appointment to the sponsoring institution.

2-2 The program director and faculty of an advanced oral and maxillofacial radiology program must demonstrate a commitment to teaching and supervision.

2-3 The program director and full-time faculty must have adequate time to develop and foster their own professional development.
STANDARD 3 - FACILITIES AND RESOURCES

Institutional facilities and resources must be adequate to provide the educational experiences and opportunities required to fulfill the needs of the educational program as specified in these Standards. Equipment and supplies for use in managing medical emergencies must be readily accessible and functional.

Intent: The facilities and resources (e.g., support/secretarial staff, allied personnel and/or technical staff) should permit the attainment of program goals and objectives. To ensure health and safety for patients, students/residents, faculty and staff, the physical facilities and equipment should effectively accommodate the clinic and/or laboratory schedule.

The program must document its compliance with the institution’s policy and applicable regulations of local, state and federal agencies, including but not limited to radiation hygiene and protection, ionizing radiation, hazardous materials, and bloodborne and infectious diseases. Policies must be provided to all students/residents, faculty and appropriate support staff and continuously monitored for compliance. Additionally, policies on bloodborne and infectious diseases must be made available to applicants for admission and patients.

Intent: The program may document compliance by including the applicable program policies. The program demonstrates how the policies are provided to the students/residents, faculty and appropriate support staff and who is responsible for monitoring compliance. Applicable policy states how it is made available to applicants for admission and patients should a request to review the policy be made.

Students/Residents, faculty and appropriate support staff must be encouraged to be immunized against and/or tested for infectious diseases, such as mumps, measles, rubella and hepatitis B, prior to contact with patients and/or infectious objects or materials, in an effort to minimize the risk to patients and dental personnel.

Intent: The program should have written policy that encourages (e.g., delineates the advantages of) immunization of students/residents, faculty and appropriate support staff.

All students/residents, faculty and support staff involved in the direct provision of patient care must be continuously recognized/certified in basic life support procedures, including cardiopulmonary resuscitation.

Intent: Continuously recognized/certified in basic life support procedures means the appropriate individuals are currently recognized/certified.

The use of private office facilities as a means of providing clinical experiences in advanced specialty education is only approved when the specialty has included language that defines the use of such facilities in its specialty-specific standards.
**Intent:** Required oral and maxillofacial radiology clinical experiences do not occur in private office facilities. Practice management and elective experiences may be undertaken in private office facilities.

3-1 An advanced oral and maxillofacial radiology education program **must** provide access for the student/resident to an active and well-organized radiographic diagnostic imaging facility.

3-2 The student/resident **must** have access to a clinical facility with adequate supervision for the comprehensive examination and radiologic diagnostic imaging management of patients.

3-3 The combination of radiographic cases, through a clinic or referral service and through indexed files and reports of diagnosed cases, **must** be sufficient in number and variety to afford adequate diagnostic experience in oral and maxillofacial radiology.

3-4 The oral and maxillofacial radiology service **must** provide sufficient space and equipment for the student/resident.

3-5 There **must** be sufficient technical and support personnel to ensure that the radiology clinic functions efficiently.

3-6 An advanced oral and maxillofacial radiology education program **must** provide access to an active and well-organized research facility.
STANDARD 4 – CURRICULUM AND PROGRAM DURATION

The advanced specialty education program must be designed to provide special knowledge and skills beyond the D.D.S. or D.M.D. training and be oriented to the accepted standards of specialty practice as set forth in specific standards contained in this document.

**Intent:** The intent is to ensure that the didactic rigor and extent of clinical experience exceeds pre-doctoral, entry level dental training or continuing education requirements and the material and experience satisfies standards for the specialty.

Advanced specialty education programs must include instruction or learning experiences in evidence-based practice. Evidence-based dentistry is an approach to oral health care that requires the judicious integration of systematic assessments of clinically relevant scientific evidence, relating to the patient’s oral and medical condition and history, with the dentist’s clinical expertise and the patient’s treatment needs and preferences.

Examples of Evidence to demonstrate compliance may include:

- Formal instruction (a module/lecture materials or course syllabi) in evidence-based practice
- Didactic Program course syllabi, course content outlines, or lecture materials that integrate aspects of evidence-based practice
- Literature review seminar(s)
- Multidisciplinary Grand Rounds to illustrate evidence-based practice
- Projects/portfolios that include critical reviews of the literature using evidence-based practice principles (or “searching publication databases and appraisal of the evidence”)
  - Assignments that include publication database searches and literature appraisal for best evidence to answer patient-focused clinical questions.

The level of specialty area instruction in certificate and degree-granting programs must be comparable.

**Intent:** The intent is to ensure that the students/residents of these programs receive the same educational requirements as set forth in these Standards.

Documentation of all program activities must be ensured by the program director and available for review.

If an institution and/or program enrolls part-time students/residents, the institution/program must have guidelines regarding enrollment of part-time students/residents. Part-time students/residents must start and complete the program within a single institution, except when the program is discontinued. The director of an accredited program who enrolls students/residents on a part-time basis must ensure that: (1) the educational experiences, including the clinical experiences and responsibilities, are the same as required by full-time students/residents; and (2) there are an equivalent number of months spent in the program.

Oral and Maxillofacial Radiology Standards
PROGRAM DURATION

4-1 The duration of an advanced oral and maxillofacial radiology program must be a minimum of 24 months full-time or its equivalent.

4-2 Students/residents must be enrolled on, at least, a half-time basis.

ETHICS AND PROFESSIONALISM

4-3 Graduates must be able to apply the principles of ethical reasoning, ethical decision making and professional responsibility as they pertain to the academic environment, research, patient care, and practice management.

Intent: Graduates should know how to draw on a range of resources such as professional codes, regulatory law, and ethical theories to guide judgment and action for issues that are complex, novel, ethically arguable, divisive, or of public concern.

CLINICAL ORAL AND MAXILLOFACIAL RADIOLOGY

4-34 Students/Residents must assume major responsibility for interpretations and consultative reports on an adequate number of imaging studies of sufficient variety to be proficient competent, as graduates, in clinical oral and maxillofacial radiology.

4-45 Clinical oral and maxillofacial radiology case conferences must be held an average of, at least, once every two weeks.

Intent: The intent is to ensure that graduates understand and can explain the underlying principles of interpretation of disease processes.

4-56 Students/residents must participate in regularly scheduled literature reviews.

Intent: Graduates will have an in-depth knowledge of the current literature in oral and maxillofacial radiology.

ORAL AND MAXILLOFACIAL RADIOGRAPHIC DIAGNOSTIC IMAGING TECHNIQUES

4-67 Training in oral and maxillofacial radiographic diagnostic imaging techniques must be provided to the students/residents with adequate instruction and supervision.
Graduates must be proficient competent in the routine and special procedures performed in oral and maxillofacial radiology including, but not limited to: (a) intraoral, (b) panoramic, (c) cephalometric and other skull projections, and (d) cone-beam computed tomography/volumetric imaging. Additionally, graduates must have an in-depth knowledge of other imaging techniques applicable to oral and maxillofacial radiology, including, but not limited to: (a) multi-slice/detector computed tomography, (b) magnetic resonance imaging, (c) diagnostic ultrasonography, and (d) nuclear medicine imaging techniques.

**Intent:** Programs will provide students/residents with an in-depth knowledge of the technical procedures to acquire these studies but not necessarily experience in independent acquisition of these studies.

Graduates must understand administrative procedures associated with the directorship of an oral and maxillofacial radiology facility.

**Intent:** Graduates of oral and maxillofacial radiology programs will be prepared to assume the administrative responsibilities to direct a radiology facility.

**ASSOCIATED MEDICAL SCIENCES**

The program must provide advanced education in head and neck anatomy, and oral and maxillofacial pathology.

**EVALUATION AND RADIOLOGIC MANAGEMENT OF PATIENTS**

The program must provide students/residents with an understanding of and experience in the clinical manifestations of oral and systemic head and neck diseases and head and neck manifestations of systemic diseases as is an important facet of the training and practice of oral and maxillofacial radiology. The program should provide students/residents with an understanding of these clinical manifestations.

Students/Residents must attend head and neck tumor board or a similar institutional interdisciplinary conference which includes radiology on a regular basis, but at least monthly.
Graduates **must** be proficient competent in designing appropriate radiologic studies.

**Intent:** Graduates of oral and maxillofacial radiology programs will be prepared to serve as a resource to the referring clinician with respect to selecting the optimum examination.

The clinical training of oral and maxillofacial radiology students/residents in the routine activities of a screening/emergency or treatment planning clinics **must** be minimized.

**MEDICAL RADIOLOGY**

The practice of oral and maxillofacial radiology calls for the association, cooperation and frequent consultation with medical radiologists. Familiarity with the broad scope of radiology is important. The program **must** provide for a meaningful period of education in medical radiology in an active, hospital-based radiology department or other similar facility of, at least, three months duration, or its part-time equivalent.

**Intent:** The practice of oral and maxillofacial radiology calls for the association, cooperation and frequent consultation with medical radiologists (general, head and neck, and/or neuroradiology). An understanding of the broad scope of radiology is important.

**RADIATION AND IMAGING PHYSICS**

Graduates **must** understand radiation physics including the basic imaging physics of: (a) conventional analog and digital oral and maxillofacial radiography; (b) cone-beam computed tomography/volumetric imaging; (c) multi-slice computed tomography; (d) magnetic resonance imaging; (d e) ultrasound imaging diagnostic ultrasonography; and (e f) nuclear medicine; and (g) image enhancement analysis concepts associated with diagnostic imaging.

**RADIATION BIOLOGY**

Graduates **must** understand have an in-depth knowledge of the biological effects of ionizing radiations.

**Intent:** Graduates will be able to describe both the biological changes and the clinical consequences of exposure to ionizing radiations.
RADIATION PROTECTION

4-196 Graduates must understand have an in-depth knowledge of radiation protection and/or hygiene.

Intent: Graduates will be prepared to eliminate unnecessary exposure of patients, operators and the general public

TEACHING EXPERIENCE

4-2047 A program in oral and maxillofacial radiology must include an organized teaching experience for students/residents with formal evaluation.

4-2148 The amount of time devoted by the student/resident students’/residents’ time devoted to this activity to teaching experience must be carefully evaluated and not disproportionate in relation to exceed ten percent (10%) of the overall program.
STANDARD 5 - ADVANCED EDUCATION STUDENTS/RESIDENTS

ELIGIBILITY AND SELECTION

Dentists with the following qualifications are eligible to enter advanced specialty education programs accredited by the Commission on Dental Accreditation:

a. Graduates from institutions in the U.S. accredited by the Commission on Dental Accreditation;
b. Graduates from institutions in Canada accredited by the Commission on Dental Accreditation of Canada; and
c. Graduates of international dental schools who possess equivalent educational background and standing as determined by the institution and program.

Eligible applicants to advanced specialty education programs accredited by the Commission on Dental Accreditation must be graduates from:

a. Accredited U.S. and Canadian predoctoral dental education programs; or
b. Predoctoral dental education programs in international dental schools that provide equivalent educational background and standing as determined by the program.

Specific written criteria, policies and procedures must be followed when admitting students/residents.

Intent: Written non-discriminatory policies are to be followed in selecting students/residents. These policies should make clear the methods and criteria used in recruiting and selecting students/residents and how applicants are informed of their status throughout the selection process.

Admission of students/residents with advanced standing must be based on the same standards of achievement required by students/residents regularly enrolled in the program. Transfer students/residents with advanced standing must receive an appropriate curriculum that results in the same standards of competence required by students/residents regularly enrolled in the program.

Examples of evidence to demonstrate compliance may include:

- Policies and procedures on advanced standing.
- Results of appropriate qualifying examinations.
- Course equivalency or other measures to demonstrate equal scope and level of knowledge.
EVALUATION

A system of ongoing evaluation and advancement must ensure that, through the director and faculty, each program:

a. Periodically, but at least semiannually, evaluates the knowledge, skills, ethical conduct and professional growth of its students/residents, using appropriate written criteria and procedures, assesses the progress toward (formative assessment) and achievement of (summative assessment) the competencies for the specialty using formal evaluation methods;

b. Provide to students/residents an assessment of their performance, at least semiannually;

c. Advances students/residents to positions of higher responsibility only on the basis of an evaluation of their readiness for advancement; and

d. Maintains a personal record of evaluation for each student/resident which is accessible to the student/resident and available for review during site visits.

Intent: (a) The evaluation of competence is an ongoing process that requires a variety of assessments that can measure the acquisition of knowledge, skills and values necessary for specialty-level practice. It is expected that programs develop and periodically review evaluation methods that include both formative and summative assessments. (b) Student/Resident evaluations should be recorded and available in written form. (c) Deficiencies should be identified in order to institute corrective measures. (d) Student/Resident evaluation is documented in writing and is shared with the student/resident.

DUE PROCESS

There must be specific written due process policies and procedures for adjudication of academic and disciplinary complaints, which parallel those established by the sponsoring institution.

RIGHTS AND RESPONSIBILITIES

At the time of enrollment, the advanced specialty education students/residents must be apprised in writing of the educational experience to be provided, including the nature of assignments to other departments or institutions and teaching commitments. Additionally, all advanced specialty education students/residents must be provided with written information which affirms their obligations and responsibilities to the institution, the program and program faculty.

Intent: Adjudication procedures should include institutional policy which provides due process for all individuals who may potentially be involved when actions are contemplated or initiated which could result in disciplinary actions, including dismissal of a student/resident (for academic or disciplinary reasons). In addition to information on the program, students/residents should also be provided with written information which affirms their obligations and responsibilities to the
institution, the program, and the faculty. The program information provided to the students/residents should include, but not necessarily be limited to, information about tuition, stipend or other compensation; vacation and sick leave; practice privileges and other activity outside the educational program; professional liability coverage; and due process policy and current accreditation status of the program.
STANDARD 6 - RESEARCH

Advanced specialty education students/residents **must** engage in scholarly activity.

6-1 Graduates **must** understand research methodology.

6-2 Graduates must understand biostatistics and epidemiology.

6-23 Students/Residents **must** engage in scholarly and/or research-related activities.