

***IRAQI NATIONAL
ACCREDITATION
STANDARDS FOR DENTAL
EDUCATION PROGRAMS***

2022



Iraqi National Accreditation Standards for Dental Education Programs

National Council for Accreditation of Dental Colleges

2022

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Contents

1. National Council for Accreditation of Dental Colleges Members-----	1
2. Introduction-----	2
3. STANDARD 1- INSTITUTIONAL EFFECTIVENESS-----	3
4. STANDARD 2- EDUCATIONAL PROGRAM -----	6
5. STANDARD 3 - FACULTY AND STAFF-----	14
6. STANDARD 4- STUDENTS AFFAIRS-----	17
7. STANDARD 5- PATIENT CARE SERVICES-----	21
8. STANDARD 6- RESEARCH PROGRAM -----	26
9. STANDARD 7- QUALITY MANAGEMENT & PROGRAM EVALUATION -----	29



IRAQI NATIONAL ACCREDITATION STANDARDS FOR DENTAL EDUCATION PROGRAMS

National Council for Accreditation of Dental Colleges Members

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Introduction

Accreditation is a peer assessment procedure that provides certification for educational institutions or programs based on the achievement of established quality and performance requirements. The National Council for Accreditation of Dental Colleges acknowledges an instruction that includes a unique combination of skills and knowledge criteria, creates accreditation criteria for program evaluations, conducts program evaluations, and publishes approved programs that fulfill the requirements. Accreditation requirements are developed in consultation with those who may be influenced by the standards and represent a diverse variety of communities .

National Council for Accreditation of Dental Colleges is approved by Iraq's minister of higher education to accredit dental education programs. The National Council for Accreditation of Dental Colleges commits it to the public, professionals, and future students to guarantee accredited Dental education program deliver a distinct core of necessary education, training, and experience. Therefore, the Council has set seven standards to evaluate dental education programs for accreditation purposes. These standards are serve as a reference for dental colleges wanting to launch new programs or enhance current ones.

Iraqi National Accreditation Standards for dental education programs are intended to accomplish the following objectives:(protect the public interest; create a learning environment that supports invention and quality improvement; assist establishments academic programs; help site visit team members in having to make program quality decisions; and provide students with reasonable expectation that the program meets its intended goals). This document's suggestions and guidelines are based on the criteria of the Commission on Dental Accreditation Standards (CODA), Association of Dental Education in Europe (ADEE), and National Institutional Accreditation Standards For higher education institutions in Iraq. Because the Council values academic independence, an institution is granted wide flexibility in constructing its educational program to fulfill the Standards.



STANDARD 1- INSTITUTIONAL EFFECTIVENESS

1-1 Vision, Mission and Goals

Intent:

Dental college/School must have a well-developed and clearly stated Vision, Mission and Goals statement compatible with dental education, teaching, patient care, and research. Furthermore, it should be communicated to the faculty, academic staff, students, and patients.

Evidence of compliance may include the following:

- The Vision, Mission, and Goals must approve by the College/School's Council which must be declared and documented.
- The College/School Council should regularly review the Vision, Mission, and Goals.
- The Mission must outline the educational strategy that prepares future dentists committed to long -life learning and community services.
- Ensure participation of stakeholders in the formulation of the Mission.

1-2 Strategic Planning

Intent:

Dental College/School must have a strategic plan that provides a guiding framework for the students' requirements over the five years and the procedures to achieve these requirements. A systematic and continuous strategic plan should be designed to promote institutional goals of the institutional effectiveness and maximize the students' academic success.

Evidence of compliance may include the following:

- The presence of a strategic plan that has been documented and authorized.
- Presence of a flexible organizational structure that is reviewed and revised periodically.
- Presence of a job description of the teaching, administrative, and technical staff.
- There must be well-defined duties of each administrative unit.



1-3 Policies and Commitments Related to the Ethics of the Profession

Intent:

The Dental College/School should have policies that support diversity of staff/faculty and students in accordance with local and national responsibilities, and regularly assess the outcomes of these policies. Additionally, the College/School of Dentistry must emphasize the application of ethical practice and professionalism in both clinical and technical aspects of dentistry.

Evidence of compliance may include the following:

- Documented and declared Policy on Quality Assurance.
- Description of academic leadership for the management of the education program and achievement of the Mission.
- Documented and declared policies for dental clinics and dental laboratories.
- Documented and declared ethical approval policy.
- The presence of a clear and documented policy for medical and hazardous waste disposal methods.

1-4 Financial Resources

Intent:

The financial resources of Dental college/School must be sufficient to support their vision, Mission, and goals. The dental program must have sufficient financial resources to sustain and continue. The program requires these resources to hire a suitable number of full-time faculty members, as well as to acquire and maintain the equipment, materials, and instructional aids listed in the institution's yearly operational budget.

Evidence of compliance may include the following:

- Identifying the sources of funding (annual operational budget) to support the educational program.
- Determining the mechanism for maximizing financial resources.



1-5 Interaction with other Institutions

Intent:

Collaboration with other higher education and health components is required for the Dental college/School and must show evidence of these collaborations. For example, collaborations with the University, Academic research centers, health care education, and/or health care centers.

Evidence of compliance may include the following:

- Identifying ,documenting cooperation mechanisms and twinning between universities and college/School
- Identifying and documenting mechanisms of cooperation with institutions such as health sectors & institutions of community service



STANDARD 2- EDUCATIONAL PROGRAM

2-1 Academic Program Specification

Intent:

Before each program or course, students must receive written information about each course's objectives and requirements, course content, teaching methods, the assessment method (s) used, and how determine the grades and the competition. The objectives of the educational program should focus on educational outcomes and clarify requirements for graduation, involves equipping graduates have knowledge, competence to commence practice as general dentists.

Evidence of compliance may include the following:

- The academic program specification is approved by College/School Council and must be declared and documented.
- The College/School Council should regularly review and update the academic program specification.
- The specification of the academic program must define the intended learning outcomes that the students exhibit upon graduation.

2-2 Curriculum Management

Intent:

The curriculum design must focus on the achievement of the declared objectives and outcomes of the program. The objectives of the course must be in line with the content of the program. Curriculum standards are specified in terms of credit/hours of study, and they must cover at least five academic years or equivalent.

The integration between biomedical, behavioral, and clinical sciences instruction must be sufficiently achieved in depth, scope, and timeliness towards the defined competencies.

The curriculum information technology component must be integrated throughout the academic years.

The dental college/School must provide appropriate patient experiences in its dental clinics or hospital to allow all students to achieve their stated competencies in a reasonable period.



Evidence of compliance may include the following:

- The dentistry college/School curriculum must be examined and assessed on a regular basis by teachers, students, administration, and other relevant sources.
- The overall curriculum must be defined by the dental college /School.
- Structure and integration in the curriculum
- Admittance to semesters, modules (study progress)
- Number of semesters and credit points
- Educational methods
- Means of study, duration, and success rate
- Determination hours of contact in theory and practical (laboratory, and clinic).
- Determination hours of clinic according to modules semester ,or study years
- Methods of Assessment
- Semester, trimester, module, year, and final Formal exams
- The requirement that needs to be carried out in order to register as a dentist

2-3 Teaching Methods

Intent:

The primary aim of dental education is to develop future professionals. Thus, the objective of teaching methods are:

- Educate students to provide dental care for their patients and communities in a good manner.
- Prepare students that can expand their skills and knowledge throughout their practical lives.

Evidence of compliance may include the following:

- The dental college/School must provide declared and documented evidence about the teaching methods used in its educational program and should at least include the following methods:



❖ Lectures

The lecture is the primary method among several teaching approaches because it is cost-efficient especially for the institution that has larger classroom sizes.

❖ Problem- based learning

Problem -based learning and case methods are recent approaches to connect between theory and practice in medical, dental, legal and business.

❖ Demonstration

Which is teaching through examples or experiments.

❖ Collaboration

Collaboration between students by talking with each other and listening to others' opinions to actively participate in the learning process.

❖ Classroom discussion

It is the most common collaborative method of teaching between students and teachers in a class.

❖ Debriefing

It is conversational sessions about:

❖ Examining information after of a certain event.

❖ Classroom Action Research to determine the best of teachers' classroom to improve student learning.

❖ Computer- assisted learning

The computers as an important educational tool in dentistry for students training and for the skills that students will need to acquire to keep pace with the new technology.



2-4 Critical Thinking and Problem-Solving

Intent:

Critical thinking is defined as “the intellectually disciplined process of actively and skillfully conceptualizing, applying, analyzing, synthesizing, and/or evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief and action”.

The educational curriculum should emphasize learning strategies that promote the development of critical thinking and problem-solving abilities. Many teaching experiences can encourage critical thinking and relating basic science principles to clinical situations, for example, Computer-based learning and other self-learning instructional materials and standardized patients.

Evidence of compliance may include the following:

- Any educational methods or practices that encourage critical thinking and problem-solving must be discussed in the curriculum.
- Description of critical thinking and problem-solving skills used by students in patient care sessions, as well as research methodologies.
- List of courses that utilize critical thinking and problem solving.
- Prospective simulations in which students carry out decision-making.
- Students should be able to apply active learning methods on clinical situation while providing patient care.

Students must complete scientific activities that demonstrate their ability to assess issues, explore different hypotheses about the pathogenesis and solutions, and defend the decisions made

2-5 Self-Assessment

Intent:

The curriculum should equip students to accept responsibility for learning and using new information throughout their careers as health care providers.



Evidence of compliance may include the following:

- Students can create personal learning plan based on learning needs.
- Students participate in other educational programs beyond their scope, including fellow classmates, patients, and other health-care specialists and can express their feelings toward these programs, including criticism and suggestions.
- The college/School must describe the ability of students to acquire and use resources independently of direct college/School feedback.
- Student self-assessment forms illustrate the routine process of student assessments of their progress toward general proficiency and Individual capabilities develop as students advance through the program.
- The college/School must describe how dental college/School encourages students to take part in continuing education programs.

2-6 Applied Oral Sciences

Intent:

Applied oral science should be of appropriate depth and scope so that the graduates can use the modern techniques of clinical practice and incorporate the latest medical expertise and procedures related to oral health care.

The oro-facial complex is an important anatomical region with a complicated biological link with the entire body, which must be emphasized in the applied oral knowledge base. This can be achieved via disciplines such as human anatomy, medical physics, medical chemistry, oral biology, biochemistry, embryology, physiology, oral histology, and microbiology.

Evidence of compliance may include the following:

- Syllabi for courses in applied oral science
- Total number of hours in the curriculum
- Hours are distributed over semesters, trimesters, modules, and School years.
- Curriculum integration refers to the integration of several parts of the curriculum.



2-7 Medical Sciences

Intent:

The medical sciences should provide in-depth information on abnormal biological conditions and promote a higher level of knowledge on oral and oral-related disorders: origin, epidemiology, differential diagnosis, pathophysiology, therapy, and prognosis. Examples of the medical sciences are general pathology, general surgery, pharmacology, general medicine and community medicine.

Evidence of compliance may include the following:

- Syllabi for courses in medical science .
- Total number of hours in the curriculum
- Hours are distributed over semesters, trimesters, modules, and School years.
- Curriculum integration refers to the integration of several parts of the curriculum.

2-8 Dental Public Health and Behavioral Sciences

Intent:

Students should understand the value of working as member of the healthcare group and have education opportunities (especially clinical experiences) that will allow them to collaborate with other students in the healthcare profession and professionals. Students must be given opportunity to gain this experience through working in a team that provides medical treatment within the dentistry-relevant health care framework. Additionally, graduates should express judgment and have an action for complicated issues in terms of new, ethically contentious, polarizing, or of public concern.

Examples of dental public health and behavioral sciences are Community Dentistry, prevention and ethics.

Evidence of compliance may include the following:

- Course syllabi of dental public health , behavioral science courses
- Total number of hours in the curriculum
- Hours are distributed over semesters, trimesters, modules, and School years.
- Curriculum integration refers to the integration of several parts of the curriculum.



2-9 Clinical Sciences

Intent:

Students should learn the principles of clinical and translational research. Graduates should be independent to perform basic dentistry upon graduation.

Examples of clinical science disciplines are restorative dentistry, endodontology, conservative dentistry, fixed and removable prosthodontics, orthodontics, occlusion and function, pedodontics, oral pathology, oral surgery, oral medicine, periodontology, and dental radiology.

Evidence of compliance may include the following:

- Course syllabi for clinical science courses
- Total number of hours in the curriculum
- Hours are distributed over semesters, trimesters, modules, and School years.
- Curriculum integration refers to the integration of several parts of the curriculum
- Student assessment methods in each of the clinical sciences should be sufficient to make sure that the graduate is suitable to pursue the career of general dentistry.

2-10 Assessment of Students

Intent:

The term assessment refers to the process of systematically determining student/learner achievement and performance. Assessment is an essential component of the learning process. since most students focus on it more than any other aspect of their curriculum; hence, it has the potential to drive student development. Preclinical and clinical dentistry education rely on appropriate curriculum design to guarantee that the targeted learning outcomes correspond to the needed level of competency and enable dental graduates to operate autonomously.



Evidence of compliance may include the following:

- Dental college/School must identify, the principles and techniques utilized in student assessment and the criteria for determining pass marks, grade limits, and the number of retakes allowed.
- The dental college / School must use a wide range of assessment methods that cover knowledge, skill and attitude and based on their evaluations, utilities.
- The dental college/School must ensure that the assessments are subject to external review.
- The dental college should adjust the frequency and form of curricular element examinations to support both knowledge acquisition and integrated learning.
- The dental college should guarantee that students receive timely, detailed, constructive, and fair feedback based on assessment results.

STANDARD 3 - FACULTY AND STAFF

3-1 Number and Distribution of Faculty and Staff

Intent:

The dental college/School should have enough staff in terms of number, distribution and qualifications to meet the specified mission, objectives and goals. The college/School must have sufficient expertise and experience in the dental program aspects they are accountable for. The dental college /School's entire staff should know about all aspects of dentistry covered in the program.

Evidence of compliance may include the following:

- The staff recruitment policy must be clear and shows the type, duties, and numbers of academic staff/faculty required to adequately deliver the curriculum. Recruitment policy should provide balance between medical and non-medical academic staff, full-time and part-time academic staff, academic and non-academic staff.
- List of totals and percentages of academic and support staff.
- List of academic staff within each department.
- List of distribution and numbers of academic staff according to their academic title (professor, associate, etc.).
- List of total number and percentages of academic staff according to gender and age.
- Distribution of academic staff across dental clinics and laboratories.
- Description of staff resources' adequacy, including administrative assistants, secretaries, student services personnel, teaching assistants, dental laboratory technicians, dental assistants, and information technology personnel.
- The dental college must take into account teacher- student ratio.



3-2 Continuing Development of Faculty and Staff

Intent:

Continuous development of the college/School should involve improve teaching, learning, encourage curriculum change, improve teacher retention and job satisfaction. It also keeps academic dentistry vitality as a source of educated career.

Evidence of compliance may include the following:

- A list of meetings, seminars, courses, conferences and workshops attended and completed by dental college/School staff in the last years.
- List of in-service programs, meetings, seminars, courses, conferences and workshops funded by dental college/School and provided to full and part time college/School staff through the last year.
- Description of the availability of continuing education courses by the college/School to the community.
- Description of how teachers maintain and enhance their skills clinically, as well as what the institution does to foster clinical skill improvement..
- List all financial resources used to support the college/School development program.

3-3 Participation of faculty and staff in decision-making

Intent:

Faculty must provide a form of governance that encourages their staff to participate in decision-making processes.

Evidence of compliance may include the following:

- A description of the roles of the dean, college committee, department heads, and administrators in the Decision-making process.
- Administrative and college/School diagram.
- Meeting of college/School committees.
- Reports of scientific committees and other committees



3-4 Faculty Staff Performance Evaluation

Intent:

There must be a defined assessment and evaluation mechanism that guarantees objective appraisal and college/School member's success in teaching, patient care, scholarship, and service.

Evidence of compliance may include the following:

- Explain the criteria utilized in the evaluation the process.
- Forms of evaluation are used for full time and part time college/School staff and administrators.
- How often and by whom the evaluation process is carried out.
- The results of the college/School faculty evaluation.

3-5 Clear policy for promotions

Intent:

The dental college/faulty must have a specifically defined promotion and/or tenure mechanism.

Evidence of compliance may include the following:

- Definition of the tenure and/or promotion policies and processes at the institution, as well as how the college/School conveys them.
- A list of college/School staff who have been nominated for tenure and/or promotion. This has to be organized by department, and the outcomes of the tenure and/or promotion should be stated clearly.

STANDARD 4- STUDENTS AFFAIRS

4-1 Admission Policy

Intent:

Precise written requirements, rules, and protocols must be followed when dental college/School students are accepted.

Enrollment policies and procedures must be designed to facilitate the recruitment and admission of a diverse student group. Admissions rules and methods can assure the choice of a diverse student group capable of effectively completing the program.

Students who transfer from a similar program at another college must fulfill all of the eligibility requirements established in the conventional curriculum and adhere to the same academic standards.

Evidence of compliance may include the following:

- Copies that documenting admission procedures and policy.
- Description of how candidates are told about the requirements of the admissions and practices, and the objectives of the program.
- Educational institution provides guidelines for admission.
- Application form.
- Policies and procedures that describe transfer students and awarding the credit to other dental college/School.

- The number of students who applied and were accepted into the program.
- Existence of admission committees.
- Study fees and study grants.
- The dental college must describe in the admission plan the size of students intake according to its capacity at all stages of the dental education program.



4-2 Facilities and Resources

Intent:

The dental college/School must have sufficient and adequately supervised facilities and learning opportunities to fulfill the dental college's/ School's purpose, mission and comply with relevant legislation.

Evidence of compliance may include the following:

- Description for all facilities where didactic and/or clinical instruction takes place, and elaborate on those facilities' adequacy for the dental college's/School's teaching, research, and service operations. Include the following in the facility description: when the hospital or dental clinic was built, review any renovations undertaken in last years and number of fully functioning laboratories clinics.
- The form and proportions of the buildings are detailed in a diagram, line drawing and maps.
- Description of the program's long-term plans for equipment maintenance, replacement, addition and safety.
- Evidence of the presence of student housing places for sporting and artistic activities and recreation.
- Evidence to support student medical treatment such as university hospital.
- The educational institution conducts periodic surveys to find out students' opinions about student services.
- The dental college/School should provide students and faculty with new information and communication technology.



4-3 Students Services

Intent:

Students should be covered under both rules and practices, which should provide mechanisms for appeal and due process. Student documents should reliably represent the work completed and be kept safely according to policies. Students who are invited to join should provide the requisite resources to provide job knowledge, guidance, advice on practice, post-graduate, and research possibilities.

Evidence of compliance may include the following:

- Students can benefit from a variety of counseling services, including personal, academic, and career counseling.
- Providing reliable statistics on financial assistance and healthcare services.
- Establishing and updating relevant written processes to ensure due process and the protection of student rights
- Maintaining the accuracy of students' performance and assessment records.
- Evaluate the program's method for identifying students who are experiencing learning problems.
- Clear description of the total cost of dental education is provided, as well as an evaluation of financial needs before enrollment
- Presence of student handbook or description of the college's/School's health-care services for students, including student education on bodily fluid contact, needle-stick rules, and other disease and environmental hazards linked with studying in a patient-care setting.
- Presence of documented procedures for all grants and financial aid that the foundation provides to the students.
- Presence of student representation in the higher administration of the college.



4-4 Graduated or alumni

Intent:

Alumni are the ambassadors of their institution, and notable alumni for many institutions represent the success of the institution in the course provided throughout the study period. The college/School should provide service for the junior alumni to keep contact with experienced alumni to share information about the best practices in their area of specialty. Communication with the graduates is essential to reinforce the principle of lifelong learning.

Evidence of compliance may include the following:

- The institution has an organizational unit to follow up alumni and their employment.
- The presence of an integrated database for alumni.
- The college/School provides training courses for unemployed graduates in professional development.



STANDARD 5- PATIENT CARE SERVICES

5-1 Policies and commitments toward patient care

Intent:

The dentistry college/School must have a written policy that explains the concept of patient-centered care and its commitment toward it, and disseminate it to all students, teachers, staff, and patients. A written declaration concerning patient rights should include the following information: the therapy should take treatment continuity and completion into account. The patient should have comprehensive and up-to-date information on his or her illness, prior awareness of treatment costs, informed consent, a description of the suggested therapy, treatment options, the choice to reject treatment, the danger when not receiving treatment, and the projected consequences of different therapies that satisfies the profession's standard of care.

Evidence of compliance may include the following:

- Patients' rights document
- Presence of description on how the patient rights statement is given to students, instructors, staff, and each patient.

5-2 Adoption of scientific evidence in the treatment of patients

Intent:

The scientific evidence inpatient care was used to define a method of teaching dental practice and helping dental students make better judgments regarding individual patients. The purpose of evidence-based dentistry is to assist dentists in providing the best possible treatment to their patients. This is accomplished by combining solid scientific findings with personal clinical experience and patient values. Evidence should be used by the dental college/School to assess new technology and products, and to assist diagnostic and treatment decisions.



Evidence of compliance may include the following:

- Presence of description of the steps involved in incorporating evidence-based dentistry into patient care, including diagnosis, planning of the treatment, management of caries , therapy for periodontal disease, restorative material selection, and treatment outcomes.
- Presence college/School committee meetings that discuss and evaluate patient care.
- Department meetings that discuss evidence-based dental treatment and implementation.
- The procedures and policies that followed in the clinic.
- Identifying the treatment methods used and approved by the college/School in providing patient care.

5-3 A formal system of continuous quality improvement for the patient care program

Intent:

For the patient care program, the dentistry college should have a well-organized method for ongoing quality improvement that exhibits evidence of patient-centered, comprehensive care standards that are established in a way that permits evaluation and facilitates assessment using quantifiable criteria, a continuous evaluation and analysis of adherence to the stated care criteria. A continuing assessment of the appropriateness, need, and quality of treatment delivered by reviewing a representative sample of patients and patient data, determining the cause of the treatment shortcomings, if necessary, implementing corrective actions are taken.



Evidence of compliance may include the following:

- Presence of college's/ School's quality-control strategy.
- Document outlining the standards of treatment and a clinic handbook
- Results from patient satisfaction survey.
- Protocol of auditing patient records
- Protocol, form, and outcomes of patient case completion review
- Describe how the college/School finds patient treatment shortcomings and how those problems are rectified.
- List of clinical prerequisites and clinical competence examinations required for graduation.
- Patients are assured of receiving the greatest dental treatment possible, separate from care connected to students' quantitative requirements.

5-4 Patient database to use in research and improvement of provided services

Intent:

The proper management of patient databases are required to track and improve patient care and used as a research and evidence-based practice resource.

Evidence of compliance may include the following:

- Policies and procedures that guide research activities in accordance with national and international guidelines.
- Patients' informed consent is obtained before entering them in research protocols.
- Describe the patient records review process at the college/School. How frequently are records audited? Who performs the audits? Provide examples of deficiencies the college/School has found during these audits. What corrective actions have the college/School taken.
- Presence of ethical approval committee and samples of their meetings and decision.

5-5 Management of common medical emergencies

Intent:

All students and other members involved in direct patient care must have theoretical and practical knowledge about basic life support, including cardiopulmonary resuscitation, and handle common medical crises. The dental college/School must ensure that, on dental emergencies, professional services are always accessible for active patients.

Evidence of compliance may include the following:

- Description the college's/School's emergency response policy, including after-hours treatment for patients.
- Patients are given information about emergencies services and after-hours care.
- Evidence of definition of the emergency supplies and equipment available in the dental clinic, as well as provide guidance on how to handle dental clinic crises. Describe any extra emergency equipment or supplies available to the clinics, as well as their location.
- Description of how the emergency equipment is checked to ensure that it is in working order.
- A copy of the treatment area's emergency management policy.
- Examples of certificates approved by specialized bodies in this field granted to the college's/School's emergency program
- Faculty, clinical staff, and students who provide direct patient care must be up to date on basic life support (B.L.S.)and emergency management, which includes: Medical emergency prevention, the most prevalent medical crises that happen in the dentist office, a standard operating procedure for any medical crises that arise in the dental clinic.

5-6 Clear policies and criteria for the use of the radiological system

Intent:

The safe use of ionizing radiation must be organized by the dental college/School. Written rules and procedures must include criteria for patient selection, and exposure frequency to radiation in accordance with current, recognized dental practice.

Evidence of compliance may include the following:

- Describe the college's/policy School's on the use of ionizing radiation, as well as the processes followed while working with ionizing radiation.
- A description of the security and safety procedures followed by the college/School when using radiation
- A special record of the periodic inspections of radiation equipment

5-7 A clear policy for sterilization and infection control methods

Intent:

The dentistry college/School must create and implement a system to guarantee proper preclinical/clinical/laboratory asepsis, infection and biohazard control, and hazardous waste disposal. The dental college/School should have regulations to college/School enforces this policy.

Evidence of compliance may include the following:

- Infection and biohazard control policy
- Hazardous waste management policy
- Infection control monitoring program.
- Plan for post-infection -exposure control
- An illustration of a monitoring report
- Additional result evaluation information, including the college's/School's corrective actions.



STANDARD 6- RESEARCH PROGRAM

6-1 Scientific Research Development

Intent:

The mission, aims, and objectives of the dentistry college/School must all contain research, which is the process of scientific inquiry involved in the discovery and dissemination of new knowledge. The institution should maintain and expand its research program on a regularly, the dentistry college/School should design methods to achieve the research purpose and review how well these goals are realized. Annual evaluations should provide evidence of breakthroughs and developments that demonstrate research leadership in the institution's research focus areas.

Evidence of compliance may include the following:

- Mission and goals document that includes the subject of scientific research.
- Presence of scientific research plan.
- The existence of an administrative formation responsible for developing and following up the scientific research plan.
- The existence of an administrative formation responsible for developing and following up the scientific research plan.
- Description of how scientific research affected the educational aspect, which was a change in the curricula or clinical treatment methods.
- Presence of reports on the number of publications in refereed journals.
- Statistics on research marketing and revenue generation.



6-2 Encourage Faculty and students to participate in the scientific research

Intent:

Faculty members in the dental college/School must do research or engage in other forms of intellectual activity as needed to fulfill the college/School's Mission, School's goals, and objectives. Students in the dental education program should be able to participate in research such as biological, epidemiologic, educational, and clinical studies. These measures should be coordinated with the research objectives and goals of the institution.

Evidence of compliance may include the following:

- Description of how faculty members are mentored as they pursue research and/or academic endeavors.
- Description of the resources available to achieve the college's/School's research objectives, mission, and aims include financial assistance, assistance with grant writing and administration, access to facilities and equipment, chances for faculty advancement, and committed time for professors to conduct research
- List of student research projects.
- List student publications.
- An annual database with the names of teachers and students and their research.
- Availability of a library with the latest scientific research resources.

6-3 Clear policy for scientific research evaluation

Intent:

Evaluating of educational research to systematically enhance an academic body of knowledge may reveal systemic flaws if well-designed research is conducted. Research findings can hopefully lead to adjustments in the methodology of teaching.



Evidence of compliance may include the following:

- Evidence of research evaluation methods followed.
- Decision made by ethical approval committee.
- Evidence of scientific committee meeting.
- Statistic and reports on scientific research and researcher.

6-4 Publication in accredited scientific journals

Intent:

One of the essential aims that the college/School should be pursued is a scientific publication in reputable journals with accepted worldwide classifications. It is regarded as one of the determinants of the quality of scientific study and the significance of the findings.

The college/School should try to mentor faculty members, graduate students, and undergraduate students in order to encourage them to publish in international journals with a high impact factor.

Evidence of compliance may include the following:

- Documented statistics about researches published in journals with a high impact factor.
- Share the importance of publishing in an international journal on the institution's entry into international classifications.
- Presence of journal accreditation committee.
- Evidence on developing faculty to publish in an accredited journal.
- Evidence on encouraging publishing in a scientific journal.



STANDARD 7- QUALITY MANAGEMENT & PROGRAM EVALUATION

7-1 Quality management system

Intent:

The college/School of dentistry's quality management framework should represent its vision, Mission, and objectives. The college/School should have a clear vision and a deep commitment to fostering a quality culture in its academic, administrative, and clinical performance. For this reason, the dental college/School should have formed a quality and planning unit, which works under the direction of the college/School dean and in partnership with their university and minister of higher education. The dental college/School should strive to meet national accreditation requirements as well as international accreditation.

Evidence of compliance may include the following:

- Presence of quality unit and planning unit.
- Evidence of implementation of national accreditation standards
- Evidence of cooperation with international accreditation bodies.
- Self-assessment report of the college/School.
- The presence of a report that outlines the program's strengths and shortcomings, as well as areas for development and ideas for change.
- Presence of program improvement plan.

7-2 Program Evaluation

Intent:

Assessment or evaluation is a key part of today's educational system. Assessment is used as a system for evaluating the academic program as well as comparing performance across a population and cultures. Ongoing assessment of education programs allows engaging in continuous quality improvement of our programs. A variety of evaluation and assessment methods were used. A well-rounded picture of program assessment may be obtained by combining direct and indirect, internal institutional and external, quantitative and qualitative data. Include surveys of student, alumni, and teacher/staff perspectives; ratings on actual student performance on classroom assignments and/or outside examinations; and summaries of talks with students, faculty, and alumni.

Evidence of compliance may include the following:

- **Course Evaluation:** As an essential component of quality evaluation, the college/School performs course evaluation questionnaires at the end of each semester or year. The college/School created a survey questionnaire that was delivered to students in order for them to fill out their replies confidentially.
- **Curriculum Evaluation:** the dental college should continuously evaluate the content of the curriculum, teaching methods and assessment methods.
- **Teacher Evaluation:** Course evaluation of the instructional and assessment methodologies of the teachers using surveys by the students for measuring, Their administrative and interpersonal skills, as well as their communication abilities. At the end of the year, department heads assess faculty as well.
- **Alumni feedback surveys:** This useful tool can be utilized to gauge your alumni's satisfaction with their education, and they have given them the right skills to be successful in the workplace and collect insights into areas for improvement.
- **Stakeholders Evaluation:** the dental college / School should seek the stakeholders' feedback about the curriculum and performance of graduates.



7-3 Publicity

Intent:

Dental colleges/Schools are obligated to publicize their existence in order to raise community awareness of dental oral health concerns. The college/School should have an annual dental symposium or conference that allows journalists, pharmaceutical firms, dental experts, students, and members of the community to visit the college/School and hear about their dental education program and dental clinics.

Evidence of compliance may include the following:

- The college/School should arrange annual conferences, symposiums, scientific meetings.
- Every event organized should be covered by print and electronic media.
- A large number of speakers and participants from the local, national, and international levels should be invited to attend any scientific events arranged by the college/School.
- The college/School should actively represent the Iraqi Dental Association and Iraqi Academic Association.
- The college/School should attend scientific events, conferences, symposium, and workshops held around the country.

