QUALITY STANDARDS FOR
GRADUATE PROGRAMS IN
PERIODONTOLOGY,
PERIODONTICS AND IMPLANT
DENTISTRY

European Federation of Periodontology
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Introduction

The European Federation of Periodontology (EFP) has as one of its missions the improvement of the quality of periodontal practice in Europe. Within this objective, education and training are key elements and with this document, the EFP aims to formulate guidelines and common quality standards for Graduate Training Programs in Periodontology. This document further defines the competences, learning outcomes and content of any Postgraduate Program aimed to graduate students as dental specialists in Periodontology, according to the provisions defined in the European Directive for Professional Qualifications (2005).

The EFP in this document sets forth the standards and requirements to be used in the evaluation of Graduate Programs in Periodontology seeking the formal accreditation by the EFP Education Committee. Once accredited, the programs are registered during a period of 8 years, when this accreditation must be renewed. The EFP, however, claims the right to evaluate a periodontal clinic/program at any desired time.

Accreditation of a graduate program in Periodontology by the EFP may be obtained by Periodontal Departments of Universities or Postgraduate Institutes after formal application and hence has the formal responsibility for the program.

The standards are defined in general terms, followed by more specific, concrete requirements and learning outcomes. The standards establish the minimum criteria defined by the EFP; the requirements can be seen as the interpretation of the standards. In complying with the standards, one should not limit oneself to the requirements listed. The visiting evaluation committee will be more than interested in any additional local qualifications that support the mandatory standards.

In order for a graduate program in periodontology to gain recognition by the EFP, compliance with the following quality standards is needed. The standards are grouped into 4 main categories:

1. qualifications of the director of the periodontology training program (the trainer);
2. qualifications of the periodontology training program;
3. qualifications of the periodontology training facility, and;
4. qualifications of the periodontal service.

The standards and requirements can be found per category in the chapters 1 to 4.

The EFP expects this document to be a valuable contribution to the quality of dental specialist training in Europe.
CHAPTER 1
Qualifications of the director of the periodontology training program

Standard:
S.1. Graduate Programs in Periodontology must be directed by individuals who hold a high professional profile in Periodontology, including a distinguished record both in academia and in practice, and who have the desire and aptitude to teach.

Requirements of the Program Director:
R.1. The program director shall be specialized in periodontology and/or have completed a periodontology program (in the future: accredited by the EFP), shall have at least 10 years of experience as a practicing periodontist.
R.2. The program director shall have a PhD degree or proven academic experience.
R.3. The program director shall have at least two years of administrative experience in a (private or university based) periodontal clinic of considerable size.
R.5. The program director shall have a (nearly) full time appointment. At least one other (nearly) fulltime staff member shall serve as co-director and be extensively involved in the postgraduate program.
R.6. The program director shall:
  6.1. take part in direct patient care activities at least one day a week;
  6.2. shall be practicing the specialty of periodontology in its full extent;
  6.3. (continue to) show his scientific interest and capabilities by publications in a hard core periodontal journal describing results of own research (at least one every 5 years) and by regular attending scientific meetings;
  6.4. (continue to) show his capabilities as a manager of the training program;
  6.5. be a member of the national Periodontology Society or a foreign Society representing his country;
R.7. The program director shall ensure that the co-director fulfills the following requirements:
  7.1.1. He/she shall be specialized in periodontology and/or have completed a periodontology program (in the future: accredited by the EFP), and have at least 3 years of experience as a practicing periodontist.
  7.1.2. Have a number of publications in the field of periodontology in peer reviewed international English language scientific journals and be active in research.
  7.1.3. He/she is an experienced clinician who is active in patient treatment
  7.1.4. He/she should be actively involved in periodontal education
  7.1.5. He/she has the experience and capability to temporarily replace the director if necessary
R.8. The program director shall ensure that:
  8.1. the additional clinical teaching staff are specialized in periodontology and have sufficient experience as practicing periodontists
  8.2. the seminars and tutorials are given by experts in the field of interest.
  8.3. staff consultations, clinical conferences and report meetings with the students are held regularly;
  8.4. the students are sufficiently in touch with other specialists;
  8.5. students perform scientific work and further the possibility of doing so;
  8.6. the students' case-reports, dental documentation and correspondence meet reasonable requirements;
  8.7. the ratio between the number of teaching staff and the number of students shall provide close personal monitoring of the trainee during his training and provide adequate exposure of the trainee to the training (a recommended ratio should be at least one teaching staff for four students).
  8.8. students will be able to function in a safe environment and will be acquainted with the risks involved in using apparatus and materials emitting ionizing radiation;
  8.9. the attitude of students towards patients and colleagues should be appropriate at all times;
  8.10. students should acquire and apply adequate knowledge and skills, according to the requirements as set forth by the European Federation of Periodontology, and undertake (corrective) actions if necessary.
R.9. Recognition as a trainer will be granted as a rule with reference to one training facility only.
CHAPTER II
Qualifications of the periodontology training program

Standards:
S.1. The periodontology training program shall be organized in accordance with sound educational principles.

S.2. The periodontology training program shall be predicated on the knowledge, skills and attitudes, required in contemporary periodontal practice at specialist level.

S.3. The periodontal clinic shall conduct the training program in such a way that the educational benefits to the student should be prioritized over the service benefits the clinic may obtain from the student.

Requirements in general terms of a Postgraduate Periodontal Program aimed for Training Specialists in Periodontology

A periodontist is a specialist in a specific discipline in dentistry which encompasses the prevention, diagnosis and treatment of diseases and conditions of the supporting and surrounding tissues of the teeth or their substitutes, including implant site development and their surgical placement, as well as the maintenance of health, function and aesthetics of these structures and tissues. In full accordance with the European Directives, the specialist postgraduate program in Periodontology must comprise a three-year full-time course or its equivalent part-time in four years, enabling the successful postgraduate student to practice Periodontics and Oral Implant Therapy at a specialist level. This course must consist of a didactic, a clinical and a research component. The didactic component may be delivered using different learning methods, but must include an extensive overview of the periodontal literature, both current and historical. The clinical component must include the treatment of all patients referred for periodontal therapy and the fulfilment of a set of competencies and proficiencies defined below. The research component should include the undertaking of a research project by the graduating students, whose results should be presented in the form of a written report or publication.

Upon completion of the post graduate program the graduate will receive a certificate from the university and is eligible to apply for recognition as a specialist. Graduates from programs accredited by the European Federation of Periodontology can apply for a certificate from the European Federation of Periodontology. The post graduate program may be extended so that a PhD degree can be obtained, however this would involve an extra period of time.

Program requirements in specific terms:
R.1. Course program
This course should be organised in three full-time years (6 semesters – 40 weeks/year) comprising 180 European Credits (ECTS – 1 ECT accounts for 25 hours of work load). Parts of the program may be exchangeable between the 3 years of education as long as the general structure of the program is maintained. The academic content leading to an Academic Master Degree will be 120 ECTS, including the Research Presentation. The Speciality Certificate can only be obtained after completing both the Academic Degree and the required clinical time. Both the Academic Degree and the Speciality Certificate are inter-linked in such a manner that one cannot be obtained without the other.

General Distribution of ECTS Credits by Year

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<th>Year</th>
<th>Didactic Learning</th>
<th>Study and preparation</th>
<th>Evaluation</th>
<th>Research</th>
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R.2. Applicants
A candidate for a post graduate program leading to a specialist in periodontology must be a dentist graduated from an accredited dental program/school. In addition the candidate must demonstrate significant experience in general dentistry.

R.3. Competences and Proficiencies in Periodontal Education at the Post-Graduate level.
In a competence-based postgraduate training program leading to a specialist in periodontology competency statements should describe the knowledge, skills, attitudes and values that a graduate must have and they are usually expressed in four levels (ADEE: Chambers 1993, Sanz 2003)
- **Be familiar with:** graduates should have a basic understanding of the subject, but need not have direct clinical experience or be expected to carry out procedures independently.
- **Have knowledge of:** graduates should have a sound theoretical knowledge of the subject, but need have only a limited clinical/practical experience.
- **Be competent at:** graduates should have a sound theoretical knowledge and understanding of the subject together with an adequate clinical experience to be able to resolve clinical problems encountered, independently, or without assistance.
- **Be proficient in:** is defined as responsible for carrying out the procedure, requiring no advice to complete the task in a timely manner. He/she should be able to undertake competently a small number of procedures that are beyond core. He/she should be able to demonstrate an understanding of the indications, process and outcome of the procedure to peers. He/she should be able to provide a logical, sequenced, integrated advanced treatment plan that takes due regard of the patient’s needs, wishes and level of cooperation.

Following the same curricular structure in a competence-based curriculum according to the ADEE (Sanz 2003) the postgraduate curriculum is organized in domains with major and supporting competences.

**Domain I. Professionalism**

**Major Competence:**

*Professional behaviour*: A specialist must be proficient in a wide range of skills, including investigative, analytical, problem solving, planning, communication, presentation, team building and leadership skills and has to demonstrate a contemporary knowledge and understanding of the broader issues of dental practice. The specialist should fully understand and implement these issues in clinical practice.

**Supporting competences:**
A specialist in periodontology must:

- Be proficient at displaying appropriate professional behaviour and communication towards all members of the periodontal team and the referring dental practitioner, since part of the periodontal services may be delegated to other members of the dental team, mainly dental/oral hygienist/therapist/GDP. This delegation, however, must be undertaken under the leadership of the periodontist who is responsible for the diagnosis, treatment planning and overall periodontal care of the patient.
- Be competent at critically evaluating the scientific literature, updating their knowledge base and evaluating scientific and technological developments as they arise. The specialist should demonstrate commitment to the maintenance of high levels of professionalism and continuous training of the periodontal team.
- Be competent at managing and maintaining a safe working environment and working with other members of the periodontal team with regard to health and safety and clinical risk management, since cross-infection control is of great concern due to invasiveness of most periodontal procedures.

**Major Competence:**

*Ethics and Jurisprudence*: A specialist must display knowledge of the content and have a thorough understanding of the moral and ethical responsibilities involved in the provision of care to individual patients, to populations and communities. The specialist must display knowledge of contemporary laws applicable to the practice of dentistry.

**Supporting competences:**
The specialist in periodontology must:

- Be proficient at selecting and prioritizing treatment options that are sensitive to each patient’s individual needs, goals and values, compatible with contemporary methods of treatment, and congruent with an
appropriate periodontal, oral and general health care philosophy, acknowledging that the patient is the centre of care and that all interactions, including diagnosis, treatment planning and treatment, must focus on the patient’s best interests. The main goal of periodontal care is the reinstitution of periodontal health to insure the longevity of the natural dentition.

• Be critical towards their own achievements in the light of the complexity of some periodontal conditions.
• Be competent in the application of the principles of regulatory law and ethical reasoning and professional responsibility as they pertain to the practice of periodontics.

Domain II. Communication and interpersonal skills

Major Competence:
A specialist must be proficient to communicate effectively, interactively and reflectively with patients, their families, relatives and carers, and with other health professionals involved in their care.

Supporting competences:
The specialist in periodontology must:
• Be proficient at establishing a patient–dentist relationship that allows the effective delivery of periodontal treatment, since long-term treatment outcomes depend on patient compliance, both with self-performed preventive measures and with appropriate supportive therapy.
• Be proficient in identifying patient’s expectations (needs and demands) and goals for periodontal care, since the patient should participate in the therapeutic decision, once he/she is provided with all the relevant information.
• Be proficient in sharing information and professional knowledge with both the patient and other professionals and specialists in other dental and medical disciplines, verbally and in writing.
• Be proficient at working with other members of the periodontal team, since the communication with the hygienists and dental assistants is particularly relevant for the successful therapy outcome.
• Have comprehensive knowledge of behavioural risk factors for periodontal diseases and methods for their modification (including tobacco, alcohol, and diet).

Domain III. Knowledge base, information, information literacy, clinical sciences and clinical skills

Major competence:
Basic knowledge and critical thinking.
A specialist in periodontology must have comprehensive knowledge of the basic sciences relevant to dentistry in general and to periodontology in particular. Moreover he/she must be proficient in all areas of clinical periodontology.

Supporting competences:
The specialist in periodontology must:
• Have comprehensive knowledge of the biomedical sciences relevant to dentistry in general and to periodontology in particular.
• Should have knowledge to be able to integrate all aspects of clinical and public health dentistry into the practice of periodontics.
• Have comprehensive knowledge of those aspects of medicine relevant to periodontics and should be competent to interact with the respective health care providers. He/she should have comprehensive knowledge of all possible interactions between oral and systemic diseases and be competent to manage the periodontal problems of the medically compromised patient.
• He/she must be competent in the application of the principles of regulatory law and ethical reasoning and professional responsibility as they pertain to the practice of periodontics.
• Have comprehensive knowledge of the historical development of periodontics.
• Be competent at critically evaluating the scientific literature, updating their knowledge base and evaluating scientific and technological developments as they arise.
• Be competent in posing pertinent research questions and hypothesis
• Be competent in designing scientific experiments
• Be competent in the statistical analysis of research data
• Be competent in writing a literature review
• Be competent in writing a research paper
Major competence:

**Diagnosis, treatment planning and patient management**

A specialist in periodontology must be able to evaluate the relevant clinical conditions in such a way that a comprehensive treatment plan can be designed and appropriate treatment, taking into consideration the individual patient needs and expectations, can be provided.

**Supporting competences:**
The specialist in periodontology must have:

- Comprehensive knowledge of the anatomy, histology and physiology of the tissues of the oral cavity and related structures.
- Comprehensive knowledge of oral microbiology with emphasis on the following: the nature, composition and physiology of plaque biofilm and its relationship to inflammatory periodontal diseases; techniques to identify microorganisms, their application and utility in periodontal practice; calculus formation.
- Comprehensive knowledge of infectious, inflammatory and immunological processes in oral diseases with emphasis on the pathogenesis of periodontal diseases.
- Comprehensive knowledge of the principles of wound healing and regeneration.
- Comprehensive knowledge of the classification and epidemiology of the periodontal diseases.
- Comprehensive knowledge of imaging techniques and their interpretation as they are related to the diagnosis of periodontal diseases and for implant therapy.
- Knowledge of behavioural/life style risk factors for periodontal diseases and methods for their modification (including tobacco use, alcohol consumption, and diet).
- Proficiency in diagnosing abnormalities in the anatomy and morphology of periodontal and oral mucosal tissues that may compromise periodontal health, function or aesthetics, identifying the conditions, which may require management.
- Proficiency in determining a patient’s aesthetic requirements and determining the degree to which those requirements/desires can be met. This is particularly relevant when recommending periodontal plastic surgical procedures.
- Proficiency in the collection and interpretation of all data necessary to establish the diagnoses, including all diseases and conditions affecting the periodontium, peri-implant tissues and neighbouring structures.
- Proficiency in determining prognosis and developing a comprehensive periodontal treatment plan, including implant therapy, and to communicate effectively to patients the nature of their periodontal health status and treatment needs.
- Proficiency in the selection and prescription of medications for the management of preoperative, operative and postoperative pain and anxiety and be familiar with the appropriate sedation techniques that can be useful in the most complex periodontal surgical procedures.

**Major competence:**

**Establishment and maintaining periodontal/oral health**

- Be proficient in the full scope of non-surgical and surgical periodontal and implant therapy.
- Be proficient in providing each patient with an appropriate, tailor made maintenance program.

**Supporting competences:**
The specialist in periodontology must:

- Be proficient in all methodologies for plaque biofilm control.
- Be proficient in educating patients the aetiology and prevention of periodontal and mucosal diseases and to motivate them to assume responsibility for their periodontal health.
- Be proficient in all aspects of non-surgical therapy.
- Be proficient in the mechanisms, application, effects and interactions of medications used for the prevention and therapy of periodontal diseases.
- Have comprehensive knowledge of the mechanisms, effects and interactions of medications used for the management of systemic diseases that may affect periodontal tissues and surrounding structures.
- Have comprehensive knowledge of the periodontal-systemic relationships.
- Have comprehensive knowledge of the influence of forces (trauma, parafunction, orthodontic forces etc.) on the periodontium and related structures and their management.
- Be proficient in all surgical techniques used in periodontics, their indications and contraindications, advantages and disadvantages.
• Have comprehensive knowledge of the interrelationship of periodontitis to pulpal disease and the various approaches to treatment.
• Have comprehensive knowledge of the interrelationships of orthodontic, restorative therapies and periodontal treatment.
• Have comprehensive knowledge of maintenance therapy.
• Be proficient in surgical implant therapy, including site development, surgical placement and maintenance.
• Be proficient in evaluating the results of periodontal treatment and establishing and monitoring a maintenance programme, in co-operation with other members of the dental team, including the evaluation of likely risk factors.
• Be proficient in methods for soft and hard tissue reconstruction.
• Be proficient in the treatment of all diseases of the peri-implant tissues.

R.4. Learning outcomes in periodontal education at the post-graduate specialist level

Formal instruction must be provided for the student to achieve the following learning outcomes:
• Comprehensive knowledge of the anatomy, histology and physiology of the tissues of the oral cavity and related structures.
• Comprehensive knowledge of oral microbiology with emphasis on the following: the nature, composition and physiology of plaque biofilm and its relationship to inflammatory periodontal diseases; techniques to identify microorganisms, their application and utility in periodontal practice; calculus formation.
• Have comprehensive knowledge of infectious, inflammatory and immunological processes in oral diseases with emphasis on the pathogenesis of periodontal diseases.
• Have comprehensive knowledge of the principles of wound healing as well as soft and hard tissue regeneration and repair.
• Have comprehensive knowledge of the process of osseointegration as well as the biology of the periimplant tissues.
• Have comprehensive knowledge of the classification and epidemiology of the periodontal diseases.
• Have comprehensive knowledge of imaging techniques and their interpretation as they related to the diagnosis of periodontal diseases and for implant therapy.
• Have knowledge of behavioral risk factors for periodontal diseases and methods for their modification (including tobacco, alcohol, and diet).
• Have comprehensive knowledge of all aspects of non-surgical therapy.
• Have comprehensive knowledge of the mechanisms, effects and interactions of medications used for the prevention and therapy of periodontal diseases.
• Have comprehensive knowledge of the mechanisms, effects and interactions of medications used for the management of systemic diseases that may affect periodontal tissues and surrounding structures.
• Have comprehensive knowledge of the periodontal-systemic relationships.
• Have comprehensive knowledge of the influence of forces (trauma, parafuction, orthodontic forces etc.) on the periodontium and related structures and their management.
• Have comprehensive knowledge of the historical development of periodontics.
• Have comprehensive knowledge of all surgical techniques used in periodontics, their indications and contraindications, advantages and disadvantages.
• Have comprehensive knowledge of the interrelationship of periodontitis to pulpal disease and the various approaches to treatment.
• Have comprehensive knowledge of the interrelationships of orthodontic, restorative therapies and periodontal treatment (including implant therapy).
• Have comprehensive knowledge of supportive periodontal therapy.
• Have comprehensive knowledge of the historical background to the development of oral implants and the various types of implant material / surgical techniques, in use.
• He/she must be proficient in the indications and contraindications when considering placement of different implant materials and their advantages and disadvantages, as well as alternatives. The specialist should be proficient in all aspects of implant site development, placement and maintenance.
• Have comprehensive knowledge of the (cellular) immunological mechanisms involved in the inflammatory response in the peri-implant soft tissues.
- Have comprehensive knowledge of the various (cellular) mechanisms leading to bone loss around oral implants.
- Have proficiency in the mechanical, surgical, and/or antimicrobial treatment of peri-implant pathologies.
- Have comprehensive knowledge of the diagnosis, etiology and treatment of halitosis.
- Have comprehensive knowledge of the diagnosis, etiology and treatment of dentinal sensitivity.
- Have knowledge of the diagnosis, etiology and treatment of mucosal lesions.

At the completion of the specialist program the graduate is expected to have accomplished the following in the **clinical component** of the program:

- Be able to recognize the various forms of periodontal diseases in order to make a diagnosis and prepare a treatment plan (including alternatives).
- To fully document each phase of treatment in order to subsequently present these cases for evaluation.
- To attend clinics in which patients are referred by general dental practitioners and are treated by specialists in a specialist setting.
- Be able to diagnose and develop a treatment plan for advanced multidisciplinary cases (combined problems of periodontal disease plus systemic and restorative considerations) and be able to carry out the periodontal component of such treatments.
- Be able to document and carry out (in a timely manner) a wide range of surgical procedures, including:
  - gingivectomy/local excision,
  - Periodontal Flap Surgery including access flaps and apically positioned flaps, with or without concomitant osseous surgery,
  - Root resection/hemisection procedures,
  - Mucogingival and plastic periodontal surgery procedures,
  - Reconstructive periodontal surgery procedures,
  - Surgical implant therapy, including surgical placement of oral implants in all areas of the dentition, in both fully and partially edentulous patients, bone augmentation procedures including grafting, guided bone regenerative techniques, sinus floor elevation and soft tissue surgical procedures in conjunction with oral implants.
- Be able to evaluate the results of the treatment and to carry out any further procedures required to maintain (supportive periodontal therapy) or improve the obtained treatment outcome.
- Be able to diagnose and treat any biological complication that may occur around oral implants.

R.5. **Research**

At the completion of the specialist program the graduate must have accomplished the following learning outcomes:

- Design and carry out a research project, including a thorough literature review with the necessary background to define the hypothesis and objectives of the proposed research. In addition, it should include the appropriate statistical analysis of the obtained research data.
- The results must be presented in the form of a written report amenable for publication in an English-language international refereed scientific journal. The comprehensive literature review in conjunction with the research report may constitute the thesis of the postgraduate program.

R.6. **Methods of learning and teaching**

Although each University and Dental School may have different approaches to education and training influenced by structures, cultures and resources, the curricular structure of the Postgraduate Program in Periodontology may be organized in modules according to the European Credit Transfer System (ECTS). Within this context of a competence-based curriculum there should be a strong emphasis on learning. With this aim, different learning methods may be used, but preferably those that are student centred, such as problem-based, project-based or case-based learning. The postgraduate student should take full responsibility for their learning and acquire learning characteristics such as critical thinking, decision-making, active learning and autonomous learning and problem solving.
R.7. Case documentation

From the first year and onwards, students will be required to present the various phases of treatment of their patients for discussion within the group. This will provide students with the opportunity to see and discuss a wide range of problems. Emphasis will be placed on diagnosis and treatment planning.

Directive for case documentation

Case reports must contain the following data:

- A full history, including medical history, an assessment of the patient's expectations and desires for treatment, evaluation of the patient's motivation.
- Clinical examination:
  This should be both extra-oral and intra-oral. The intra-oral examination will include information concerning the functional state of the gingiva, probing pocket depth, probing attachment loss and furcation involvement in addition to the state of the oral mucous membranes. Where applicable, a restorative status and pulp vitalities should be recorded.
  The examination must include plaque and bleeding indices.
- Radiographic examination:
  A complete long-cone, standardized radiographic survey must be presented, together with vertical bite wings. A full assessment of the radiographs from a diagnostic point of view must be given.
- Photographic status:
  The following views must be presented:
  - Anterior view of both arches with teeth in contact
  - Buccal view of the lateral aspects of the arches
  - Palatal/lingual view of both arches
  - Occlusal views of the upper and lower arch
  The photographic documentation should allow assessment of the clinical status of the case at initial presentation, during treatment and at completion of treatment. Where possible, photographs should also be taken throughout the treatment in order to illustrate the various procedures.
- Special tests: When indicated bacteriological and/or hematological tests
- Models: In cases where occlusal discrepancies are present, orthodontic type models should be available. Study models should be made of all cases.
- Diagnosis: This must relate to the overall case as well as each individual tooth.
- Aetiology: The major causes and the predisposing factors should be presented.
- Prognosis: This must relate to the overall situation as well as each individual tooth.
- Treatment plan: The treatment plan must be described in detail together with possible alternatives.
- Progress of treatment: The treatment carried out must be described in detail together with an ongoing assessment, including all aspects of documentation. The time spent on various aspects of treatment should also be recorded.
Qualification of the assessment

Standard:
S.4. The student's competence shall be attested to by the academic institution and (therefore) by the European Federation of Periodontology.

R.8. Assessment of learning outcomes
Assessment should be valid, and therefore should be developed in alignment with the curriculum content and the learning outcomes. Assessments should also be reliable, reproducible and feasible.

Requirements for such assessments procedures and performance criteria:
• Clearly defined criteria for the learning outcomes which should be communicated to the students.
• Multiple methods of assessments should be used and multiple samples of performance should be taken.
• Both formative and summative assessment should be employed.
• The alignment of the learning content, the method of teaching and learning as well as the assessment should be clear as well as demonstrable.

During the program participants will be assessed on their performance as follows:
• After each course/series of seminars an examination is held, organized by those giving each course.
• Six months after the start of the program and at the end of each academic year, an assessment of each student's clinical performance.
• At the end of each academic year, a pass grade must be obtained for all examinations and assessments in order that a student may proceed to the following year.
• In each academic year a failed examination can be repeated once only. Should a student's clinical performance be inadequate, extra time may be allocated to the student. This extra time is only available in the first academic year.
• In the third year, the training period at the clinic of a department of Periodontology or when available at an accredited Periodontal Specialty Clinic have to be attended. Students must show proficiency in clinical treatment of cases involving both periodontics and the surgical component of oral implant therapy.
• At the end of the third year a final oral examination will take place. It must be held in the English language. Students are allowed to enter after all regular examinations during the program have been graded as pass and clinical performance assessed as proficient.
• At the final examination students must be able to present 5 fully documented cases, including at least one implant case to the Board of Examiners. The final examination encompasses the whole field of periodontology and implant dentistry. Students must be able to participate in a discussion of the diagnostic elements and treatment plans of at least one of the documented cases. Furthermore, the students must be prepared to answer questions related to the general subject of Periodontology and implant dentistry.
• In addition, students are required to present a scientific report to the Board of Examiners. The report must be in English as a manuscript in the acceptable format of presentation for publication in a peer reviewed international journal but contains a more extensive introduction reviewing the relevant literature. In addition a slide presentation should be provided (as PDF or PPT).
• The final examination will therefore include:
  1. A clinical part in which at least 1 documented case is presented by the graduate student in the presence of the Board of Examiners. After presentation, the case will be extensively discussed followed by a discussion encompassing the whole field of periodontology and implant dentistry. This part lasts at least 60-75 minutes per candidate.
  2. An oral presentation of their research project in the presence of the Board of Examiners. After this presentation, the research will be extensively discussed which enables the student to demonstrate his maturity in science. In addition the students must be prepared to answer questions related to their literature review. This part lasts at least 60-75 minutes per candidate.
• The board of examiners of a graduate program must include an EFP representative fulfilling the following criteria:
  - Should come from a foreign country
- Should be a well-recognised clinician who is still active in patient treatment.
- Should have a PhD or be a certified specialist in Periodontology and have a number of publications in the field of Periodontology
- Should be actively involved in periodontal education
  - In order to promote the true external character of the EFP examiner, an EFP examiner can only participate at 2 consecutive occasions in an examination committee of an institution. This examiner may only return to a given institution in his capacity of examiner after he/she participated at least in the board of examiners of 2 other EFP accredited programs.
  - Since the final EFP examination of a postgraduate student consists of an evaluation of the clinical and scientific proficiency this examination should be preferable carried out by one and the same examiner on the same day. In case this is not possible another EFP examiner may do the examination provided that the examination is carried out within 1 year after the first examination. The second examiner must be provided with the completed evaluation form of the first examiner.
  - The EFP representative in the board of examiners is appointed by the EFP-PEC on proposal from the program director.
  - After passing the final examination and successfully defending the thesis, a diploma in Periodontology, Periodontics and implant dentistry, recognized by the EFP appropriate to, and of, the host academic institution will be conferred on the student. The EFP diploma will signed by the EFP examiner, the chairman of the Postgraduate Education Committee and on behalf of the host institution by the program director and where appropriate also by the chairman of the department of Periodontology.
  - Students who fail the examination but have attended the program may receive an Attendance Certificate.
  - Students who pass the final examination but are unable to present a thesis suitable for publication may receive an Attendance Certificate.

References:
CHAPTER III
Qualifications of the periodontology training facility

Standard:

S.1. The periodontal clinic shall serve as the principle teaching facility for the student(s) and shall be adequate to make possible the attainment of the objectives as set forth in the program description/requirements as approved by the European Federation of Periodontology.

Requirements training facility:

R.1. The periodontal clinic shall be physically and functionally (and organizationally) linked with an academic dental and medical institution in order to guarantee for the students of the periodontology training program the possibility to call dental and medical specialists into consult.

R.2. For the training of individuals at least one treatment-unit per student is available.

R.3. The training facility shall offer complete and up to date library facilities that shall be accessible for all students. Subscriptions of the hard core periodontal journals as well as the general dental and medical journals shall be available.

R.4. The facility shall have an internal quality assurance and improvement system.

R.5. Recognition as a training facility for periodontology shall be granted only on condition that the director of the periodontology program has been recognized as a trainer for the periodontology program.
CHAPTER IV
Qualifications of the periodontal service

Standard:
S.1. The principal goal of the periodontal service shall be to ensure safe, appropriate and cost-effective periodontal diagnostic and therapeutic services.

Requirements:
R.1. The periodontal clinic shall have adequate facilities and resources to carry out a broad scope of (supporting) services related to standard S.1. These services include, but are not limited to:
- practice administration;
- registration of dental and periodontal care;
- technology and quality control activities;
- informational and educational services;
- consulting services.
R.2. The periodontal clinic shall be organized in accordance with the principles of good management under the direction of a professionally qualified periodontist (see chapter I) and with sufficient appropriate personnel to perform a broad scope of periodontal services, and shall comply with all applicable European, national and local laws, codes, statutes and requirements.

Good management requires, but is not limited to, the following:
• there should be an organizational chart for the periodontal clinic illustrating the chain of authority, delineating the responsibilities of the professional and supporting staff, and depicting what services the periodontal clinic presumes to carry out. (Specific) practice objectives should be clearly defined in a written statement. If the periodontal clinic is organizationally a part of an academic dental institution or hospital, than the practice objectives should be in accordance with the established objectives of that institution.
• written policies to govern the conduct of periodontal services should exist and should be kept current. Also, there should be written procedures for all routine transactions, functions and operations within the practice, and these should kept current. All personnel should be familiar with the policies and procedures applicable to their respective areas.
• Responsibilities for all staff should be delineated in current position descriptions.
• Sufficient appropriate personnel implies, but is not limited to:
• professional staff should be adequate to carry out the stated objectives for the periodontal clinic and to provide legally competent services at all times.
• professional staff members should demonstrate their interest in maintaining professional competency by attending continuing education activities, reading professional literature etc.
• the supportive staff should be adequate to support the professional staff. The basic criterion for determining the required number of supportive staff members is whether or not the supportive staff is adequate to relief the professional staff members from performing a large number of responsibilities and functions that can be appropriately assigned to para-professional personnel.