

Advanced Education in General Dentistry Program Objectives and Competencies

In addition to the competencies that the residents are expected to achieve (see below) the Advanced Education in General Dentistry Program has specific goals and objectives. These are:

ONE-YEAR PROGRAM GOALS

- A. To fulfill the postdoctoral requirements of University of Rochester Eastman Institute for Oral Health and the American Dental Association's Council on Dental Education through accreditation requirements for one-year Advanced Education in General Dentistry program.
- B. To attract and educate residents with a strong interest in enhancing clinical skills and theoretical knowledge in dentistry to become successful when entering clinical practice.
- C. To stimulate the resident's interest in academics and research.
- D. Prepare the graduate: To act as primary care provider for individuals and groups of patients.
- E. Plan and provide multidisciplinary oral health care for a wide variety of patients including patients with special needs.
- F. Function effectively and efficiently in multiple health care environments within interdisciplinary health care teams.
- G. Apply scientific principles to learning and oral health care.
- H. Utilize the values of professional ethics, lifelong learning, patient centered care, adaptability and acceptance of cultural diversity in professional practice.
- I. Understand the oral health needs of communities and engage in community service.

TWO-YEAR PROGRAM GOALS

- A. The two year residents are expected to fulfill the postdoctoral requirements of University of Rochester Eastman Institute for Oral Health and the American Dental Association's Council on Dental education through the accreditation requirements for the two-year Advanced Education in General Dentistry programs
- B. To attract and educate the future leaders of dentistry, dental education, dental research, and community service.
- C. To stimulate the resident's interest in academics and research.
- D. Prepare the graduate: To act as primary care provider for individuals and groups of patients.
- E. Plan and provide multidisciplinary oral health care for a wide variety of patients including patients with special needs.
- F. Function effectively and efficiently in multiple health care environments within interdisciplinary health care teams.
- G. Apply scientific principles to learning and oral health care.
- H. Utilize the values of professional ethics, lifelong learning, patient centered care, adaptability and acceptance of cultural diversity in professional practice.
- I. Understand the oral health needs of communities and engage in community service.

These goals are evaluated during the year at the quarterly evaluation sessions through multiple resident evaluation tools (both of and by the residents) and through multiple resident evaluation tools and through an end of year questionnaire administered to the residents. Additionally, periodic surveys of recent graduates will be used to supplement the data collected. These data are reviewed by the program **director and faculty and appropriate actions are taken.**

COMPETENCIES

The residents enrolled in the two-year Advanced Education in General Dentistry Program for International Graduates have to fulfill all the competencies but are expected to select four (4) to reach proficient level.

Documentation, information management and quality improvement

1. Evaluate scientific literature and use information in the literature in making professional decisions.
2. Maintain a patient record system that facilitates the retrieval and analysis of the process and outcomes of patient treatment.
3. Modify the treatment plan, if indicated, based on therapeutic outcomes, unexpected circumstances or the patient's individual needs.

Pediatric Dentistry

4. Perform pediatric pulpal therapy.
5. Restore intra and extra-coronal defects in the primary dentition.
6. Perform uncomplicated surgical procedures on pediatric patients.
7. Use pharmacologic and non-pharmacologic behavior management skills with the pediatric patient. (Elective)

Pulpal therapy

8. Diagnose and treat pain of pulpal origin, to include performing uncomplicated, non-surgical endodontic therapy.
9. Recognize and manage uncomplicated endodontic situations and emergencies.
10. Manage complex endodontic therapy and complications.

Restoration of teeth

11. Restore single teeth using a functionally acceptable range of materials and methods.
12. Place restorations and perform techniques to enhance facial esthetics.
13. Restore intra and extra coronal defects.
14. Restore endodontically treated teeth.

Temporomandibular Dysfunction and Occlusion.

15. Diagnose and manage a patient's occlusion.
16. Treat minor occlusal abnormalities and arch space problems using space maintenance and other orthodontic appliances.
17. Diagnose and non-surgically treat uncomplicated Temporomandibular disorders.

Replacement of teeth

18. Treat patients with missing teeth requiring uncomplicated removable and/or fixed prostheses.
19. Communicate with laboratory technicians and evaluate the resultant prostheses.
20. Recognize and manage cases requiring complicated prostheses.
21. Treat patients with missing teeth using uncomplicated dental implant restorations.
22. Manage the surgical component of dental implant systems.
23. Assess and manage complications of dental implants.

Treatment of medical and dental emergencies

24. Anticipate, diagnose and provide initial treatment and follow-up management for medical emergencies that may occur during dental treatment.
25. Diagnose and manage dental emergencies, performing uncomplicated or reversible techniques where indicated
26. Provide initial treatment and then manage patients with extra and complex orofacial emergencies and infections.
27. Perform initial treatment and management of extra-oral facial trauma. (Elective)
28. Treat intraoral hard and soft tissue lesions of traumatic origin. (Elective)
29. Manage intraoral soft tissue lesions of nontraumatic origin.

Periodontal Therapy

30. Diagnose periodontal disease using the periodontal examination and radiographs.
31. Treat and manage mild and moderate periodontal disease, including non-surgical and surgical techniques.
32. Recognize and manage periodontal emergencies and complications of periodontal treatment.
33. Evaluate the results of periodontal treatment and establish and monitor a periodontal maintenance program.

Obtain informed consent

34. Explain and discuss with patients, parents or guardians of patients, who lack decisional capacity, findings, diagnoses, treatment options, realistic treatment expectations, patient responsibilities, time requirements, sequence of treatment, estimated fees and payment responsibilities, in order to establish therapeutic alliance between the patient and/or parent or guardian and care provider.

Oral Pathology, Oral Surgery and Hospital Protocol

35. Perform surgical and nonsurgical extraction of erupted teeth.
36. Perform uncomplicated pre-prosthetic surgery
37. Perform biopsies of oral tissues.
38. Recognize and manage surgical emergencies and complications of intraoral surgical treatment.
39. Extract uncomplicated impacted wisdom teeth.
40. Diagnose and manage common oral pathological abnormalities.
41. Provide dental treatment in an operating room. (Elective)
42. Provide comprehensive management and care for individual inpatients or same day surgery patients from the beginning to the end of a patient's hospital experience. (Elective)
43. Request and respond to requests for consultations. (Elective)
44. Identify needs and make referrals to appropriate health care providers for the treatment of physiologic, psychologic and social problems presented by dental patients.
45. Perform dental consultations and request medical consultations for hospitalized patients and patients in other health care settings. (Elective)

Planning and providing multidisciplinary comprehensive care

46. Integrate multiple disciplines into an individualized, comprehensive, sequenced treatment plan using diagnostic, risk assessment and prognostic information for patients with complex needs.
47. Develop and carry out dental treatment plans for special needs patients in a manner that considers and integrates those patients' medical, psychological and social needs.
48. Provide dental care as part of an interprofessional health care team.
49. Diagnose and manage oral manifestations of systemic disease.

Patient assessment and diagnosis

50. Obtain and interpret a patient's chief complaint, history of present illness, medical, dental, family and cultural background, social histories, and review of systems.
51. Obtain and interpret appropriate laboratory and radiographic data and obtain additional diagnostic information through consultation with other health care providers.
52. Perform a history and physical examination and collect other data to establish a risk assessment for use in the development of a dental treatment plan.
53. Establish diagnosis and risk assessment incorporating historical, laboratory, radiographic and clinical findings.

Practice management

54. Function as a patient's primary oral health care provider.
55. Treat patients efficiently in a dental practice setting
56. Use and implement accepted sterilization, disinfection, universal precautions and occupational hazard prevention procedures in the practice of dentistry.
57. Practice and promote the principles of jurisprudence and ethics in the practice of dentistry and in relationships with patients, personnel and colleagues.
58. Provide patient care by working effectively with allied dental personnel including performing sit down, fourhanded dentistry.

Medical risk assessment

59. Select and use assessment techniques to arrive at a differential, provisional, and definitive diagnoses for patients with complex needs.
60. Treat patients with a broad variety of acute and chronic systemic disorders and social difficulties, including patients with special needs.

Promoting oral and systemic health and disease prevention

61. Use accepted prevention strategies such as oral hygiene instruction, nutritional education, and pharmacologic intervention to help patients maintain and improve their oral and systemic health.

Sedation, pain and anxiety control

62. Evaluate the need for use of behavioral and/or pharmacologic modalities in management of pain and anxiety based upon psychosocial factors and anticipated clinical procedures.
63. Use pharmacologic agents in the treatment of dental patients.

64. Provided control of pain and anxiety in the conscious patient through the use of psychological interventions, behavior management techniques, local anesthesia, and oral and nitrous oxide conscious sedation techniques.
65. Prevent, recognize and manage complications related to the use and interactions of drugs used to sedate patients and control pain and anxiety. (Elective)
66. Provide control of pain and anxiety in the conscious patient through the use of parenteral conscious sedation techniques. (Elective)

Request and respond to requests for consultations

67. Identify needs and make referrals to appropriate health care providers for the treatment of physiologic, psychological and social problems presented by dental patients.
68. Perform dental consultations and request medical consultations for hospitalized patients and patients in other health care settings.

Research

69. Design a study and write a research protocol.
70. Perform a research study.
71. Complete write-up and present the results of the research project.