

Kornberg School of Dentistry

Academic Program Student Learning Outcomes

Program Description	Program Degree	Student Learning Outcomes
ADVANCED EDUCATION IN GENERAL DENTISTRY	DENT	Provide emergency and multidisciplinary comprehensive oral health care; provide patient focused care; direct health promotion and disease prevention effectively.
		Will be able to plan and provide care for patients with special needs (e.g. development disabilities, complex medical problems, and/or significant physical limitations)
		Graduates will be able to manage the delivery of oral health care by applying concepts of patient and practice management as well as quality improvement.
		Graduates will be able to function effectively and efficiently within an interdisciplinary health care team.
		Graduates will be able to apply scientific principles to learning and oral health care (including critical thinking, evidence, outcomes-based clinical decision-making and technology based information retrieval systems)
		Graduates will be able to utilize the values of professional ethics, lifelong learning, patient centered care, adaptability, and cultural diversity in professional practice.
DENTAL PUBLIC HEALTH	DENT	Residents must design an oral health program for a city, state or country (Example: Provision dental care homeless children; Community engagement dental school) including aspects such as: -Goals -Needs and demand assessments -Community determinants -Analyze existing support data - Resource inventories -Specific plans (prevention, service delivery) -Budget and financing -Evaluation A written report & an oral presentation are delivered in DPHS 8003.
		Residents must evaluate oral health workforce issues / identify needs and opportunities for inter-professional education and/or analyze and critique a dental care model (Written reports DPHS 8001)
		Residents must demonstrate ethical decision-making in the practice of dental public health by attending the course titled 'Bioethics and Critical Thinking in Dentistry' and completing a research protocol with IRB approval
		Residents must design surveillance systems to measure oral health status and its determinants. Analyze epidemiological data state level to monitor an oral health condition (Report Surveillance System PA DPHS 5089 Oral Presentation on 3 surveillance systems, identifying oral health indicators; compare and contrast; recommendations DPHS 8001)
		Residents must develop policy statements DPHS 9991 or conduct community outreach and/or present an oral health topic/issue to a specific target population DPHS 8001
		Residents must lead collaborations on oral and public health issues. Conduct meetings with community partners/lead teams. (Field Experience DPHS 5089)
		Residents must advocate for public health policy, legislation, and regulations to protect and promote the public's oral health, and overall health
		Residents must critically appraise evidence to address oral and public health issues for individuals and populations . (Systematic reviews (1 to be published) DPHS 9991 Critique based on JEBD format for DPHS8003)

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DENTAL PUBLIC HEALTH (CONT'D)	DENT (CONT'D)	Conduct research to address oral and public health problems (DPHS9991 and DPHS8007)
		Residents must integrate the social determinants of health into dental public health practice. (Design and analyze oral health programs accounting for differences in social determinants DPHS 8003)
DENTISTRY	DMD	1. Obtain and interpret the findings of a comprehensive patient interview to assess past and current disease, medical/dental risk status and outcome preferences.
		2. Perform and interpret the findings of a comprehensive intra/extra oral examination.
		3. Engage other health professionals in shared, patient-centered problem-solving, consultation and referral.
		4. Select, obtain, and interpret diagnostic images.
		5. Recognize the manifestations of systemic diseases and how they may impact on the management and provision of dental care.
		6. Analyze diagnostic and risk assessment data and formulate comprehensive preventive, treatment and/or referral options to address patients' needs and outcome preferences and promote health by engaging patients in the management of their own care.
		7. Communicate the comprehensive treatment and health promotion plan to the patient and develop goals for evaluating the progress of health promotion at subsequent visits.
		8. Understand and apply biomedical science knowledge in the delivery of patient care.
		9. Assess and manage the unique needs relating to the oral health care of special needs patients.
		10. Select and administer or prescribe pharmacological agents in the treatment of dental patients.
		11. Prevent, diagnose, and manage pain and anxiety in the dental patient.
		12. Prevent, diagnose, and manage periodontal diseases.
		13. Prevent, diagnose and manage caries.
		14. Provide restorative care to preserve tooth structure, replace missing or defective tooth structure, maintain function and esthetics, and promote soft and hard tissue health.
		15. Diagnose and manage developmental or acquired malocclusion and space management needs.
		16. Manage the replacement of teeth for the partially or completely edentulous patient.
		17. Diagnose and manage pulpal and periradicular diseases.
		18. Diagnose and manage soft and hard tissue surgical treatment needs.
		19. Recognize and manage medical emergencies.
		20. Recognize and manage dental emergencies.
		21. Manage tobacco cessation interventions.
		22. Evaluate outcomes of comprehensive dental care, develop recall strategies and determine prognoses.
		23. Diagnose and manage oral soft tissue and osseous disorders.

Kornberg School of Dentistry

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DENTISTRY (CONT'D)	DMD (CONT'D)	<p>24. Communicate and manage dental laboratory procedures in support of patient care.</p> <p>25. Utilize critical thinking and problem-solving skills in the care of patients, scientific inquiry and research methodology.</p> <p>26. Evaluate scientific literature and integrate best research outcomes for the delivery of evidence-based patient-centered care.</p> <p>27. Apply the principles of ethical decision making and professional responsibility.</p> <p>28. Apply psychosocial and behavioral principles in patient-centered health care for health promotion and disease prevention.</p> <p>29. Apply principles of legal and regulatory concepts related to the provision and/or support of oral health care services, including informed consent.</p> <p>30. Apply the basic principles and philosophies of practice management, evaluate models of oral health care management and delivery, and understand how to function successfully as the leader of the oral health care team.</p> <p>31. Utilize self-assessment as a part of ongoing self-directed learning.</p> <p>32. Utilize universal infection control guidelines for all clinical procedures.</p> <p>33. Obtain and interpret the findings of a comprehensive patient interview to assess past and current disease, medical/dental risk status and outcome preferences.</p> <p>34. Perform and interpret the findings of a comprehensive intra/extra oral examination.</p> <p>35. Engage other health professionals in shared, patient-centered problem-solving, consultation and referral. (e.g. medical consultation)</p> <p>36. Select, obtain, and interpret diagnostic images.</p> <p>37. Recognize the manifestations of systemic diseases and how they may impact on the management and provision of dental care.</p> <p>38. Analyze diagnostic and risk assessment data and formulate comprehensive preventive, treatment and/or referral options to address patients needs and outcome preferences and promote health by engaging patients in the management of their own care.</p> <p>39. Communicate the comprehensive treatment and health promotion plan to the patient and develop goals for evaluating the progress of health promotion at subsequent visits.</p> <p>40. Understand and apply biomedical science knowledge in the delivery of patient care.</p> <p>41. Assess and manage the unique needs relating to the oral health care of special needs patients.</p> <p>42. Select and administer or prescribe pharmacological agents in the treatment of dental patients.</p> <p>43. Prevent, diagnose, and manage pain and anxiety in the dental patient.</p> <p>44. Prevent, diagnose, and manage periodontal diseases.</p> <p>45. Prevent, diagnose and manage caries.</p>

Kornberg School of Dentistry

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DENTISTRY (CONT'D)	DMD (CONT'D)	46. Provide restorative care to preserve tooth structure, replace missing or defective tooth structure, maintain function and esthetics, and promote soft and hard tissue health.
		47. Diagnose and manage developmental or acquired malocclusion and space management needs.
		48. Manage the replacement of teeth for the partially or completely edentulous patient.
		49. Diagnose and manage pulpal and periradicular diseases.
		50. Diagnose and manage soft and hard tissue surgical treatment needs (including surgical extractions).
		51. Recognize and manage medical emergencies.
		52. Recognize and manage dental emergencies.
		53. Manage tobacco cessation interventions.
		54. Evaluate outcomes of comprehensive dental care, develop recall strategies and determine prognoses.
		55. Diagnose and manage oral soft tissue and osseous disorders.
		56. Communicate and manage dental laboratory procedures in support of patient care.
		57. Utilize critical thinking and problem-solving skills in the care of patients, scientific inquiry and research methodology.
		58. Evaluate scientific literature and integrate best research outcomes for the delivery of evidence-based patient-centered care.
		59. Apply the principles of ethical decision making and professional responsibility.
		60. Apply psychosocial and behavioral principles in patient-centered health care for health promotion and disease prevention.
DENTISTRY (Advanced DMD Program for Faculty)	DMD	61. Apply principles of legal and regulatory concepts related to the provision and/or support of oral health care services, including informed consent.
		62. Apply the basic principles and philosophies of practice management, evaluate models of oral health care management and delivery, and understand how to function successfully as the leader of the oral health care team.
		63. Utilize self-assessment as a part of ongoing self-directed learning.
		64. Utilize universal infection control guidelines for all clinical procedures.
		Obtain and interpret the findings of a comprehensive patient interview to assess past and current disease, medical/dental risk status and outcome preferences.
Perform and interpret the findings of a comprehensive intra/extra oral examination		
Engage other health professionals in shared, patient-centered problem-solving, consultation and referral. (e.g. medical consultation)		
Select, obtain, and interpret diagnostic images.		
Recognize the manifestations of systemic diseases and how they may impact on the management and provision of dental care.		

Kornberg School of Dentistry

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DENTISTRY (Advanced DMD Program for Faculty) (CONT'D)	DMD (CONT'D)	Analyze diagnostic and risk assessment data and formulate comprehensive preventive, treatment and/or referral options to address patients' needs and outcome preferences and promote health by engaging patients in the management of their own care.
		Communicate the comprehensive treatment and health promotion plan to the patient and develop goals for evaluating the progress of health promotion at subsequent visits.
		Understand and apply biomedical science knowledge in the delivery of patient care.
		Assess and manage the unique needs relating to the oral health care of special needs patients.
		Select and administer or prescribe pharmacological agents in the treatment of dental patients.
		Prevent, diagnose, and manage pain and anxiety in the dental patient.
		Prevent, diagnose, and manage periodontal diseases.
		Prevent, diagnose and manage caries.
		Provide restorative care to preserve tooth structure, replace missing or defective tooth structure, maintain function and esthetics, and promote soft and hard tissue health.
		Diagnose and manage developmental or acquired malocclusion and space management needs.
		Manage the replacement of teeth for the partially or completely edentulous patient.
		Diagnose and manage pulpal and periradicular diseases.
		Diagnose and manage soft and hard tissue surgical treatment needs (including surgical extractions).
		Recognize and manage medical emergencies.
		Recognize and manage dental emergencies.
		Manage tobacco cessation interventions.
		Evaluate outcomes of comprehensive dental care, develop recall strategies and determine prognoses.
		Diagnose and manage oral soft tissue and osseous disorders.
		Communicate and manage dental laboratory procedures in support of patient care.
		Utilize critical thinking and problem-solving skills in the care of patients, scientific inquiry and research methodology.
Evaluate scientific literature and integrate best research outcomes for the delivery of evidence-based patient-centered care.		
Apply the principles of ethical decision making and professional responsibility.		
Apply psychosocial and behavioral principles in patient-centered health care for health promotion and disease prevention.		
Apply principles of legal and regulatory concepts related to the provision and/or support of oral health care services, including informed consent.		

Kornberg School of Dentistry

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DENTISTRY (Advanced DMD Program for Faculty) (CONT'D)	DMD (CONT'D)	Apply the basic principles and philosophies of practice management, evaluate models of oral health care management and delivery, and understand how to function successfully as the leader of the oral health care team.
		Utilize self-assessment as a part of ongoing self-directed learning.
		Utilize universal infection control guidelines for all clinical procedures
ENDODONTICS	DENT	Students will be competent to practice endodontics including diagnose, understand the basis of, and adequately treat, alone or in concert with other dental and medical practitioners, endodontic problems and their related diseases; are prepared for the American Board of Endodontics.
		Students will be competent to provide skilled endodontic care which integrates the best evidence with current technology, clinical expertise, and patient values.
		Students will be able to conduct original research and produce a written document at a publishable level.
		Students will develop an responsibility to contribute the perpetuation and growth of the field of endodontics.
ORAL + MAXILLOFACIAL SURGERY	DENT	Residents will be prepared to enter private practice successfully.
		Residents will be competent in conducting research and critically appraising scholarly activity
		Residents will demonstrate a commitment to upholding the ethical standards of the profession and patient care.
		Residents will demonstrate a commitment to lifelong learning and professional development
ORAL BIOLOGY	MS	Demonstrate an understanding of Oral and CranioFacial Biology
		Apply Biological and Basic Science Concepts to the practice of dentistry
		Conduct Original Research and demonstrate understanding of research methodology
ORAL HEALTH SCIENCES	MS	Apply Biological and Basic Oral Health Science Concepts to the practice of dentistry
		Demonstrate an understanding of Oral Health Science and its components
		Conduct Original Research and demonstrate understanding of research methodology
ORTHODONTICS	DENT	To graduate Orthodontists who possess and apply the knowledge and skills required to diagnose, understand the basis of, and adequately treat, alone or in concert with other dental and medical practitioners, Orthodontic cases while maintaining the health of the patient.
		To educate residents to possess the tools to critically evaluate treatment outcomes, thereby, fostering an environment for self-evaluation and for comparative analysis.
		To prepare Orthodontic residents to effectively communicate to other medical professionals and patients, that knowledge of Orthodontics and related craniofacial anomalies is essential to comprehensive patient centered care.

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ORTHODONTICS (CONT'D)	DENT (CONT'D)	To graduate Orthodontists who possess the knowledge and skills required to critically evaluate, treatment outcomes, dental literature, research, technological advancements, and therapeutic procedures, and apply this knowledge into their diagnosis, treatment plan and clinical practice.
		To graduate Orthodontists who understand the theory and methods of clinical and basic science research.
		To graduate Orthodontists who understand the importance of life-long learning, professional development, their responsibility to the profession and the community-at-large, and instill ethical behavior both in the profession and the personal lives of our residents
PERIODONTICS	DENT	In-depth knowledge of relevant basic/biomedical sciences as they relate to the theory and practice of periodontics and oral implantology
		Develop proficiency with diagnosis, treatment planning, and therapies of periodontal diseases and dental implants, using classic and current literature to support decision making.
		Proficiency in developing long term supportive periodontal therapy of periodontal and implant patients.
		Development of fundamental research skills and an interest in and understanding of periodontal research in order to evaluate the peer reviewed scientific literature relevant to periodontology.
		Engage with the community, patients, and other health care providers in ethical and professional ways.