

# PEDIATRIC DENTAL RESIDENCY PROGRAM DENVER HEALTH MEDICAL CENTER DENVER, COLORADO

## **Description of Hospital**

Denver Health Medical Center is a not-for-profit, teaching and academic hospital accredited by The Joint Commission. Denver Health is Colorado's primary safety net institution and provides full-service health care to the uninsured, underinsured and undocumented citizens. Denver Health provides 40 percent more indigent care than any other health care facility in the Denver Metropolitan area. It is a 525-bed medical center featuring:

- Level 1 Trauma Center
- Inpatient and Outpatient Clinics:
  - 5 Dental Clinics
  - 54 Subspecialty Clinics
  - 2 Urgent Care Centers
  - 17 School Based Health Care Centers
  - Rocky Mountain Poison and Drug Center
- Comprehensive Patient Care Services:
  - Oral Maxillofacial Surgery
  - Oral Maxillofacial Trauma
  - Cleft & Craniofacial Surgery
  - Corrective Jaw Surgery
  - Dental Implants
  - Wisdom Teeth Removal
  - Family Internal Medicine
  - Adult Internal Medicine
  - Women's Care
  - Pediatric Care
  - Foster Care Programs
  - Home Visit Programs
  - Refugee Health Care
  - Vision and Eye Care
  - Nurse Line
  - Pediatric Emergency and Urgent Care
  - Psychiatric Emergency Services
  - LGBT Health Services
  - Resources and Education
  - Mental Health and Addiction Services
  - Prescription Refill and Pharmacy Services

Denver Health Medical Center's dental programs treat a growing, unique population of more than **25,000** patients. The dental patient population treated at our facility has significant needs, with poorer health and more extensive dental pathology than the general population. Our patients present with a complex array of medical, psychological, economic, physical, and social problems that complicate their dental treatment. We enjoy the support and services of a dental staff with extensive education, training and experience in the full spectrum of dental care and thus provide outstanding, comprehensive dental care to the citizens of Denver and Denver County. In addition to the treatment of eligible patients, the dental service receives approximately **2,049** consult requests per year for dental input and treatment of urgent and

emergent adjunctive dental needs. In 2020, despite clinical services being suspended for 2 months due to the COVID-19 pandemic, the dental department provided care to over 25,000 patients through over 54,000 visits. Pediatric patients comprised 55 percent of the dental patient population in 2020.

The Webb Dental Clinic is currently utilized by the Denver Health OMFS and GPR programs, as well as staff dentists, to provide patient care for children, adults, and patients with special health care needs. The Webb Dental Clinic has four sedation dedicated treatment rooms. Denver Health has two facilities on campus, Pavilions M and A, that have fully equipped operating rooms with pre- and post-op care units. A new Outpatient Medical Center (OMC) is under construction and near completion. In April 2021, the OMFS and GPR programs will move to the OMC. The Webb Dental Clinic will undergo some renovations in May and become the Denver Health dental clinic dedicated to care for pediatric and special health care needs patients. The OMC, as well as the current OR facility in Pavilion A, will be utilized to provide treatment for patients under general anesthesia.

### **Program Strengths**

The Denver Health program will provide residents with clinical experiences dedicated to providing comprehensive care for infants and children through adolescence, including those with special health care needs. Denver Health Medical Center's dental programs treat a growing, unique population of more than 25,000 patients.

The dental clinic is based in the Webb Center for Primary Care where pediatric and special needs patients receive a variety of primary and specialized healthcare. Residents will have the opportunity to see normal, healthy children as well as those that present with complexities related to age, medical condition, extent of oral disease and behavior. The program works closely with Denver Health CODA accredited OMFS and GPR advanced education programs. This results in opportunities for advanced clinical and didactic training by orthodontists, periodontists, endodontists and oral maxillofacial surgeons. The dental clinic is co-located with the primary care pediatric clinic and has established an effective medical-dental integration process. Resources and consultants for pediatric health care are available at Denver Health as well as Rocky Mountain Hospital for Children. Denver Health is a Level 1 Trauma Center providing training and experience in management and treatment of injuries to oral-facial structures.

### **Resident Eligibility**

Graduation from an accredited American Dental Association or Canadian Dental Association dental school, and an expressed desire on the part of the applicant to complete a two-year pediatric dental residency.

### **Application**

The PASS Application is used. Applications must be received by the residency Program Director by mid-October to be considered for acceptance the following year on July 1<sup>st</sup>. Four residents are selected each year through the MATCH Program.

### **Appointment**

Appointments are made solely upon merit. No discrimination shall be made because of race, age, color, creed, national origin, sex, political affiliations or sexual orientation.

## **Period of Training**

The Pediatric Dental Residency at Denver Health Medical Center is a comprehensive two-year program encompassing both clinical and didactic training. A certificate is awarded to each resident at the completion of the program.

## **Teaching and Supervisory Staff**

Pediatric Dental Residents are closely supervised American Board of Pediatric Dentistry Eligible or Certified Diplomats, Orthodontists, and other staff.

### **Program Faculty**

Jeffrey Young, DDS, Program Director, Pediatric Dentistry\*

Heather Jenkins, DDS, Pediatric Dentistry\*

Scott Hamilton, DDS, Pediatric Dentistry\*

Kojo Danso, Pediatric Dentistry

Laurence Colletti, DDS, Orthodontics (part-time)

Ricky Harrell, DMD, Orthodontics\*\* (part-time)

Sean Whalen, DDS, MS, Pediatric Dentistry\* (part-time)

Mark Glasgow, DDS, Program Director, Oral Maxillofacial Surgery\*\*

Natalie Simpson, DDS, Program Director, GPR

Robert Chavez, DDS, MS, Endodontics\*\*

\*Board Certified, American Board of Pediatric Dentistry

\*\*Board Certified in Specialty

## **Scope of Training: Didactic and Clinical Program Plan**

### Didactic Program

The didactic program utilizes formal lecture presentations, clinical care conferences, journal clubs and many other formats to provide resident education in the following areas of advanced complexity beyond the pre-doctoral training:

- Biomedical Sciences to include statistics, pharmacology, microbiology, embryology, genetics, anatomy, and oral pathology
- Behavior Guidance
- Craniofacial Growth and Development
- Oral Facial Injury and Emergency Care
- Oral Diagnosis, Oral Pathology, and Oral Medicine
- Prevention and Health Promotion
- Comprehensive Dental Care for the Primary, Mixed and Permanent Dentitions
- Practice Management
- Special Health Care Needs Patients
- Hospital Dentistry
- Pulp Therapy
- Pediatric Medicine
- Advocacy

### Clinical Program

The clinical program provides experience and training in off-service rotations to include Anesthesia, Pediatrics, Emergency Medicine, Operating Room, Oral Surgery, and Patients with Special Health Care Needs. Primary and comprehensive preventive and therapeutic oral health care is provided at Denver Health Wellington Webb Dental Clinic for infants and children through adolescence, including those with special health care needs. Additionally, advanced training in the following dental specialty is provided:

- Orthodontics

- Periodontics
- Oral and maxillofacial surgery
- Restorative dentistry
- Endodontics

## **GOALS AND OBJECTIVES FOR DENVER HEALTH GENERAL PRACTICE RESIDENCY**

### **Overall Program Goals and Objectives**

The program will provide a high-quality educational experience for residents by:

1. Providing opportunities for residents to develop diagnostic and treatment planning skills for the treatment of infants, children, adolescents, and persons with special needs.
2. Providing an integrated study of advanced didactic and clinical instruction in all phases of pediatric dentistry.
3. Delivering didactic instruction for residents to gain advanced pediatric dental knowledge through monthly lectures and seminars that include case presentations, literature reviews, medically complex series, specialty lectures, and advanced dental and medical topics.
4. Introducing clinical instruction enabling residents to gain experience in providing comprehensive dental care to a variety of pediatric patient populations including medically complex pediatric patients.
5. Providing exposure to and familiarization with evidence-based dentistry principles.
6. Familiarizing residents with contemporary research methods in order to review published literature pertinent to pediatric dentistry and be able to critically evaluate it.
7. Supporting residents in conducting a data collection research project including development, implementation, interpretation, and reporting of data and present the results at the annual AAPD meeting.
8. Supporting residents to become educationally qualified for the American Board of Pediatric Dentistry Certification process and meet high ethical and professional standards.
9. Facilitating an attitude of community service among residents through the care of underserved pediatric patient populations and provision of patient and caregiver education.
10. Encouraging resident participation in community service projects (school-based services, COMOM, community events, advocacy events).
11. Prioritizing resident development of life-long learning skills.
12. Encouraging resident development of desire and motivation to be leaders in organized dentistry at the local and national levels.

### **Program Clinical Competencies**

The program will provide experiences to address each of the following clinical competencies through clinical rotations in the pediatric dental clinic and a variety of off-service rotations:

1. Patient management using behavior guidance for infants, children and adolescents including patients with special health care needs, using non-pharmacological techniques, sedation, and inhalation analgesia.

2. Diagnosis of dental, skeletal, and functional abnormalities in the primary, mixed, and young permanent dentition stages of the developing occlusion
3. Recognition, diagnosis, appropriate referral and/or focused management of:
  - a. Space maintenance and arch perimeter control associated with the early loss of primary and young permanent teeth;
  - b. Transverse arch dimensional problems involving simple posterior crossbites;
  - c. Anterior crossbite discrepancies associated with localized dentoalveolar crossbite displacement and functional anterior shifts (e.g. pseudo-Class III);
  - d. Anterior spacing with or without dental protrusion;
  - e. Deleterious oral habits;
  - f. Preservation of leeway space for the resolution of moderate levels of crowding;
  - g. Ectopic eruption, ankylosis and tooth impaction problems;
  - h. The effects of supernumerary (e.g. mesiodens) and/or missing teeth.
4. Diagnosis and management of traumatic injuries of the oral and perioral structures including primary and permanent dentition and in infants, children and adolescents
5. Provision of emergency services including assessment and management of dental pain and infections.
6. Pediatric oral and maxillofacial radiology and appropriate procedures of radiation hygiene.
7. Treatment of common oral diseases in infants, children and adolescents.
8. Application of prevention and health promotion in clinical practice.
9. Diagnosis and treatment planning for infants, children, adolescents and those with special health care needs
10. Provision of comprehensive dental care including examination, treatment, and management to infants, children, adolescents and those with special health care needs in a manner consistent with the dental home.
11. Treatment of pediatric patients under general anesthesia in the operating room.
12. Treatment of pediatric patients under moderate conscious sedation.
13. Treatment of pediatric patients with nitrous oxide/oxygen analgesia.
14. Evaluation and medical management of pediatric patients admitted to the hospital related to:
  - a. understanding of admitting procedures
  - b. completing of consultation requests
  - c. obtaining and evaluating patient/family history
  - d. orofacial examination and diagnosis
  - e. ordering radiological and laboratory tests
  - f. writing patient management orders
  - g. pediatric patient monitoring
  - h. discharging and chart completion

15. Management of infants, children and adolescents and adolescents undergoing general anesthesia, including:
  - a. pre-operative evaluation
  - b. risk assessment
  - c. assessing the effects of pharmacologic agents
  - d. venipuncture techniques
  - e. airway management
  - f. general anesthetic induction and intubation
  - g. administration of anesthetic agents
  - h. patient monitoring
  - i. prevention and management of anesthetic emergencies
  - j. recovery room management
  - k. postoperative appraisal and follow up
16. Diagnosis of pulpal disease in primary and permanent teeth.
17. Treatment of pulpal disease in primary teeth and immature permanent teeth.
18. Management of pulpal disease in mature permanent teeth including emergency care, stabilization and referral to specialists.
19. Obtaining and evaluating through pediatric medicine:
  - a. complete medical histories
  - b. parental interviews
  - c. system-oriented physical examinations
  - d. clinical assessments of healthy and ill patients
  - e. selection of laboratory tests and evaluation of data
  - f. evaluation of physical, motor and sensory development
  - g. genetic implications of childhood diseases
  - h. the use of drug therapy in the management of diseases
  - i. parental management through discussions and explanation
20. Communicate, teach, and collaborate with groups and individuals on children's oral health issues.
21. Advocate and advise public health policy legislation and regulations to protect and promote the oral health of children.
22. Participate at the local, state and national level in organized dentistry to represent the oral health needs of children, particularly the underserved.

**For further information concerning this program please contact:**

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