



Clinical Fellowships

CTOR is changing the way we practice orthodontics, exploring the use of mechanical stimulation to maintain and heal jaw bones, expanding the envelope of dental and orthopedic corrections in growing and non-growing patients, and creating new methods to accelerate tooth movement.

At CTOR Academy, our mission is to educate clinicians about these advances and train a new generation of orthodontists that use new and efficient clinical therapies in their practices to treat all severity of malocclusions.

With this in mind, CTOR Academy offers two Clinical Fellowship programs giving clinicians the opportunity to choose the program that best meets their interests and career goals.

The Clinical Fellowship in Orthodontics is introductory course for General Dentists and Pediatric Dentists interested in exploring a career in Orthodontics, while the Clinical Fellowship in Dentofacial Orthopedics is designed for Orthodontists who would like to continue their education and learn advanced techniques in the field of Dentofacial Orthopedics.

Join us in this journey!

Mani Alikhani, DMD, MS, PhD

Message from the Dean





Clinical Fellowship

in Orthodontics

for General & Pediatric Dentists

Clinical Fellowship in Orthodontics



If you are seriously considering Orthodontics and Dentofacial Orthopedics as a career, this pre-residency program is the perfect introductory course to this exciting specialty!

The CTOR Clinical Fellowship in Orthodontics is tailored for General Dentists and Pediatric Dentists interested in expanding their knowledge in Orthodontics and Dentofacial Orthopedics and preparing themselves for the rigors of specialty training in this field.

This 5-month program will update the clinician's knowledge of facial growth and provide the skills needed to accurately diagnose orthodontics and dentofacial problems. Fellows will receive training in Orthodontics diagnosis and treatment planning, orthodontics appliances and their applications, basic biomechanics principles, and early interceptive orthodontics approaches, while learning to identify more complex and severe occlusal and skeletal problems that should be referred to an Orthodontist.

Application Deadline: April 30, 2024

Application fee: \$50 USD

Program duration: July 15, 2024 to October 14, 2024

Tuition Fee: \$30,000

Applicant's Education Requirement: General Dentist or Pediatric Dentist

Clinical Fellowship in Orthodontics

Course Highlights

- History of Orthodontics and review of orthodontics appliances and their applications
- Growth of the face and jaws and growth modification approaches
- Movement of teeth and stages of Orthodontics Treatment
- Basic biomechanics principles and their clinical applications
- Treatment of simple orthodontics cases
- Early interceptive orthodontics treatment
- Principles of removable appliances, including clear aligners
- Hands-on experience: diagnostic records, fixed appliance placement, appliance fabrication and adjustment.



Course Content Overview

Diagnostic Tools and Treatment Planning

Fellows will be introduced to orthodontics, learn how to acquire and analyze facial and intraoral photographs, lateral cephalograms, and diagnostic casts. They will learn how to develop and present problem-based comprehensive treatment plans.

Introduction to Early Interceptive Treatment

Fellows will learn about craniofacial growth and development, how to identify and intercept abnormal growth using dentofacial orthopedic principles. Fellows will acquire competence to identify malocclusions and deliver early interceptive Orthodontics treatment in their practices.

Introduction to Fixed Appliances

Fellows will be introduced to basic biomechanics principles, learn about the different stages of orthodontics treatment, and learn how to use fixed appliances (braces) in limited and comprehensive orthodontics treatment of Class I malocclusions.



Clear Aligner Therapy: Indications and Limitations

Fellows will expand their skills in the efficient use of clear aligners for corrections of minor occlusal problems, and learn about adjunct orthodontics procedures that can facilitate difficult movements with aligners, such as micro-osteoperforations.

Adult Orthodontics Treatment

Fellows will be introduced to Adult Orthodontics treatment including limited approaches to facilitate the restoration of mutilated dentitions such as molar up-righting techniques, forced eruption to optimize fixed prosthesis, and targeted bone remodeling to allow implant placement.

Retention in Orthodontics

Fellows will learn to plan the retention stage of orthodontics for both growing and non-growing patients, understand mechanical principles of retainer design, and become competent in the fabrication and adjustment of different types of retainers.

Graduation

The graduation ceremony and awarding of Course Certificates will follow the successful completion of the Fellowship.



before

after

before

after

Pre-treatment and post-treatment occlusal photographs show arch development after Early Interceptive Orthodontics treatment. Palatal expanders and lip bumpers were used to create space for eruption of permanent teeth and align the dentition without need for fixed appliances (braces).



**Clinical
Fellowship**

**in Dentofacial
Orthopedics**
for Orthodontists

Clinical Fellowship in Dentofacial Orthopedics



This fellowship is designed for Orthodontists that would like to continue their education after graduating from their specialty residency program.

The CTOR Clinical Fellowship in Dentofacial Orthopedics combines the latest orthodontics treatment approaches with advanced biomechanics principles that allow orthodontists to treat severe skeletal and dental deformities non-surgically with an efficient and predictable approach.

Fellows will be introduced to NIM therapy, learn to combine precise mechanics with the latest advances in bone and cartilage biology, and master new concepts and technologies that expand the boundaries of Orthodontics and Dentofacial Orthopedic corrections in both children and adults.

Application Deadline: April 30, 2024

Application fee: \$50 USD

Program duration: August 1, 2024 to July 11, 2025

Tuition Fee: \$70,000

Applicant's Education Requirement: Orthodontist

Clinical Fellowship in Dentofacial Orthopedics

Course Highlights

- Advanced Mechanotherapy Principles and Design
- Introduction to Neuro-Immuno-Mechanotherapy (NIM)
- Advanced concepts in growth and development, bone biology and cartilage biology
- Treatment options for Class II and Class III complex skeletal malocclusions in growing and non-growing patients
- Clinical applications and placement of External Plates
- Periosteal stimulation, cortical drift, and bite block therapy
- Clinical applications of Shockwave therapy and high-frequency acceleration
- Airway Health Diagnosis and Treatment
- Retention and relapse of Orthopedic corrections
- Supervised clinical care of severe skeletal and dental malocclusions



Course Content Overview

Introduction to Neuro-Immuno-Mechanotherapy (NIM)

Fellows will be introduced to NIM therapy and the biological principles and tools allowing correction of severe skeletal problems in both growing and adult patients including TADs, external plates, and cortical drift.

Advanced Mechanotherapy Design

Building on the basic Biomechanics principles and their previous Orthodontics & Dentofacial Orthopedics training, fellows will learn about advanced biomechanical principles required to plan individualized Mechanotherapy approaches of treatment of Class II and Class III complex skeletal malocclusions.

Advanced Dentofacial Orthopedic Tools

Fellows will learn and obtain skills on the safe use of tools facilitating orthopedic corrections in both growing and adult patients, such as periosteal stimulation, external plates, cortical drift, shock wave, and bite blocks. Fellows will learn about indications and clinical guidelines for their efficient and safe application.



Airway Health Treatment Protocols

Fellows will obtain diagnostic skills and learn about comprehensive treatment approaches to airway problems. Frequently, severe skeletal deformities result in breathing problems with clear negative consequences on the patient's quality of life. Successful correction of these problems involves multidisciplinary approaches requiring orthopedic corrections.

Retention of Dentofacial Orthopedics Corrections

Fellows will learn to plan and execute the retention stage of Orthopedic corrections for both growing and non-growing complex patients.

Final Case Presentations and Graduation

Fellows will select and present an Dentofacial Orthopedics patient treatment progression and completion. The graduation ceremony and awarding of Course Certificates will follow the successful completion of the Fellowship.



before

after

before

after

Pre-treatment and post-treatment intraoral photographs show the correction of a skeletal open bite malocclusion using adult orthopedics tools developed at CTOR. Without surgical jaw correction or dental extractions, the alveolar bone remodelled into a new shape on both jaws.



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**Join the future of
Orthodontics!**