

**THE PREDOCTORAL  
PROGRAM IN  
ORTHODONTICS**

**ORTHODONTICS  
&  
DENTOFACIAL ORTHOPEDICS**

The dental specialty which includes the

- diagnosis
- prevention
- interception
- guidance
- correction

of malrelationships of the developing  
or mature orofacial structures.

## **MALOCCLUSION**

- Impaired mastication
- Unfortunate facial esthetics
- Dysfunction of the temporomandibular articulation
- Susceptibility to dental caries
- Susceptibility to periodontal disease
- Impaired speech due to malpositions of the teeth

## **Orthodontic Therapy**

- malocclusion
- abnormal growth of the complex of craniofacial bones
- malfunction of the orofacial neuromusculature

# **ORTHODONTIC TREATMENT**

- **PREVENTIVE**
- **INTERCEPTIVE**
- **LIMITED**
- **COMPREHENSIVE**

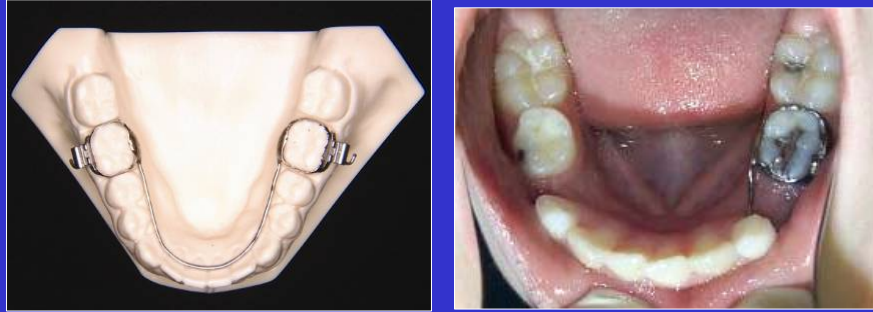
## **PREVENTIVE ORTHODONTICS**

**Dental treatment intended to prevent the development of a malocclusion**

### **Examples**

- **Dental restorations**
- **Temporary prostheses (space maintainers)**
- **Extraction of deciduous teeth (delayed exfoliation)**

## PREVENTIVE ORTHODONTIC TREATMENT



space maintainers

## INTERCEPTIVE ORTHODONTICS

**An extension of preventive orthodontics that may include localized tooth movement in an otherwise normal dentition**

PRIMARY AND / OR PERMANENT DENTITION

### **Examples**

- redirection of ectopically erupting teeth
- correction of isolated dental cross bite
- recovery of recent minor space loss where overall space is adequate

INTERCEPTIVE ORTHODONTIC TREATMENT



INTERCEPTIVE ORTHODONTIC TREATMENT



tongue crib  
appliance treatment

## COMPREHENSIVE ORTHODONTICS

**The coordinated diagnosis and treatment leading to the improvement of a patient's craniofacial dysfunction and/or dentofacial deformity including anatomical, functional and esthetic relationships.**

## COMPREHENSIVE ORTHODONTICS

**Treatment usually utilizes fixed orthodontic appliances and may include functional and /or orthopedic appliances.**

Adjunctive procedures, such as extractions, maxillofacial surgery, myofunctional or speech therapy and restorative or periodontal care, may be coordinated disciplines.

## COMPREHENSIVE ORTHODONTICS

**Optimal care requires long-term consideration of patient's needs and periodic reevaluation.**

Treatment may incorporate several phases with specific objectives at various stages of dentofacial development.

## COMPREHENSIVE ORTHODONTIC TREATMENT



## LIMITED ORTHODONTICS

**Orthodontic treatment with a limited objective,  
not involving the entire dentition.**

It may be directed at the only existing problem,  
or at only one aspect of a larger problem in which  
a decision is made to defer or forego more  
comprehensive therapy

## LIMITED ORTHODONTIC TREATMENT



simple cross bite treatment

## **COURSE OBJECTIVES**

### **Educate the predoctoral students**

- identify **all** dentofacial deformities
- prevent **certain types** of malocclusion (e.g. crowding)
- perform** interceptive orthodontics (e.g. correction of an isolated dental crossbite).
- perform** limited orthodontics (e.g. uprighting a molar).
- get exposed to** comprehensive **orthodontics**.

## **PREDOCTORAL ORTHODONTICS**

- **didactic material**
- **laboratory exercises**
- **clinical experience**

**TEXTBOOK**

**Essentials for Orthodontic Practice**

**Riolo, M. and Avery, J. Eds.,**

**EFOP Press of EFOP, LLC. Ann  
Arbor and Grand Haven, Michigan,  
U.S.A., 2003.**

**Attendance is mandatory at all**

- lectures / seminars**
- laboratory sessions**
- clinical sessions**

**WORKING  
WITH THE POSTDOCTORAL  
ORTHODONTIC STUDENTS**

- didactic (seminars)**
- laboratory sessions**
- clinical experience**