

**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**

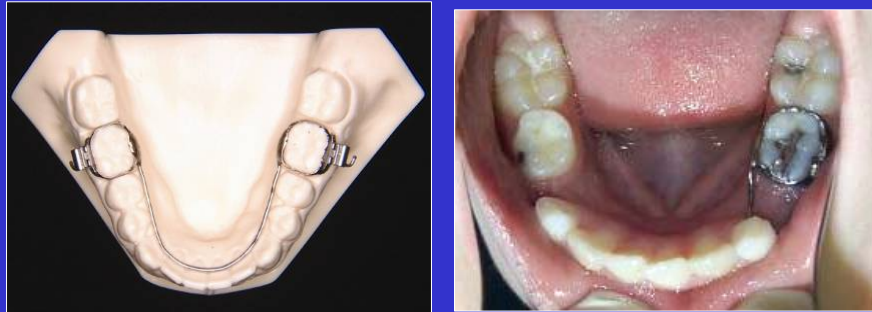
PREVENTIVE ORTHODONTICS

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**