

University of Naples "Federico II" Master New Clinical Approaches in Contemporary Orthodontics Coordinator: Prof. Vincenzo D'Antò

# NEW CLINICAL APPROACHES IN CONTEMPORARY ORTHODONTICS



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### Master Program

# New Clinical Approaches in Contemporary Orthodontics

#### **LEAD BY**

Prof. Vincenzo D'Antò and the team

#### **DIPLOMA**

Master of II Level in Orthodontics

#### **DURATION**

1 year

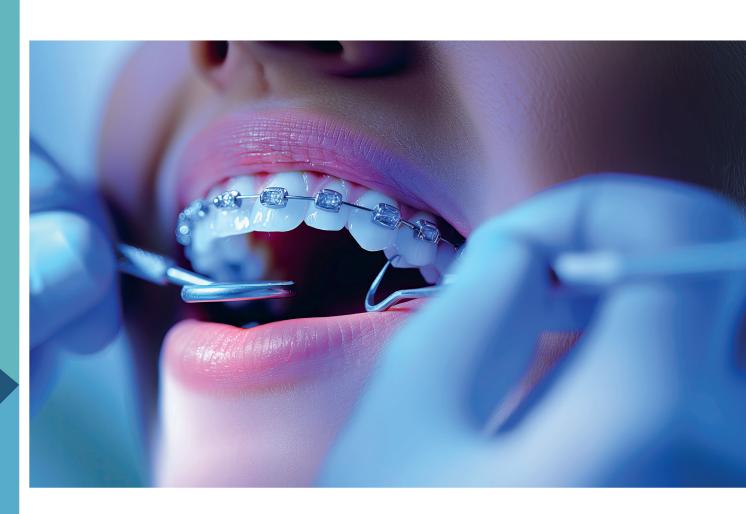
#### **DATE**

Starting 13 of October 2025 - July 2026

#### **LECTURES**

Online, on - demand and live

- Weekly, every Wednesday, 9:00 11:00 a.m., (CET), 2 hour live zoom webinars (recording will be available).
- 2 weeks on site in 13 16 of October 2025 and spring of 2026 (date will be announced soon)
- Case discussion sessions.



## Master Program

Diagnosis and treatment planning

# Orthodontic check up Orthodontic documentation:

- Intraoral and extraoral photos
- Orthodontic casts
- Radiographic exams
- Simplified cephalometric analysis

#### Diagnosis: The basis for excellence

- The role of anterior limit and facial aesthetic in diagnosis and therapy
- The four levels of disharmony
- The subjective and objective "Problem list"

# Visualization of treatment objectives: VTO Practical part

- Training in cephalometry
- Collection of medical records
- Collection of diagnostic records
- Intra- and extraoral photos
- Analysis of study casts

Fixed therapy and aligners: the basics

#### The basics of "shape driven" techniques

- The 6 keys of Andrews' occlusion
- Hardware: brackets prescription
- The management of the arch shape
- The sequence of wires
- Aligners and the digital workflow

#### Prediction of biomechanical response

- Biomechanics concepts applied to straight wire technology: how to achieve maximum efficiency

#### The bonding in orthodontics

- Sequence of positioning
- How to avoid the most common mistakes
- Indirect bonding

#### Auxiliaries Attachments Practical part

- Bonding and attachments reproduction
- Modelling of coordinated arches and bends
- Performing laceback, bend-back and tie-back

#### Clear aligner treatment

- Clinical workflow behind treatment: from the prescription to virtual planning of movements
- Indications and limitations of the treatment with clear aligners
- How to review the digital project and ask for changes
- Clear aligners biomechanics
- Clear aligners delivery and useful information for the patient
- Tips for IPR, elastics use and resolution of common problems
- How to make attachments
- Clinical protocols for the most common malocclusions
- Retention

#### The anchorage

- Principles for anchorage planning
- Skeletal Anchorage

# Preventive and interceptive orthodontics

#### Rational approach to malocclusion interception

- Interception of bad habits and dentition issues
- Respiratory sleep disorders in children
- Staging of skeletal maturation and timing of orthodontic treatment

#### Rational approach to malocclusion interception

- Diagnosis of skeletal and dental transversal discrepancy
- Orthopaedic and orthodontic expansion
- Advantages and disadvantages of different devices
- Activation and duration of expansion treatment
- The retention of expansion mechanics

#### Class I Malocclusion

#### Treatment sequences in the straight wire technique

- Alignment
- Levelling
- The working phase mechanics

#### **Extraction treatment**

- Critical factors in treatment planning
- Patterns of Extractions
- Mechanics for closing spaces
- Fixed therapy treatment of class I extractive cases

#### The vertical discrepancies

- The interceptive treatment of deep bite and open bite
- Extraoral tractions

#### **Practical**

- Bending and activation of cantilevers



Clas	- Timing: the right choice at the right moment  Functional therapy for class II malocclusion  - Bite Jumping Appliance: clinical use  - Herbst appliance  Functional therapy for class II malocclusion  - Indications and limitations  - Mechanics for class II correction  - Sagittal first approach  - Extractive therapy: treatment sequences
Clas	Malocclusion  - Biological basis and etiopathogenesis of class III malocclusion  - Classification and diagnosis  Orthopaedic therapy: indications, limitations and biomechanical considerations  - Petit-Delaire mask  - Class III pushing splints (PS-3)  Fixed therapy for class III malocclusion:  - Orthodontic camouflage for class III malocclusion  - Mechanics for class III correction: inter-maxillary elastics  - Extractive therapy  Clear aligners for treating a class III malocclusion
	Interception and treatment of impactions and dental anomalies  - Interception of dental impaction  - Diagnosis: which exams are needed  - Treatment planning: from surgery to the biomechanics in cases of palatal and buccal impactions  - Skeletal anchorage for disimpaction mechanics  - Clinical cases  Practical part  Cantilever for canine disimpaction

#### Finishing:

- Objectives of the finishing phase
- Protocol to achieve a correct finishing: the checklist
- Use of elastics and finishing bends
- Principles of smile aesthetic

# Finishing and retention

#### Retention

- Stability and relapse: scientific literature vs clinical experience
- Removable retainers: advantages and disadvantages
- Fixed retainers: advantages and disadvantages

#### **Practical part**

- Modelling of fixed retainer
- Finishing bends

# Orthodontics and temporomandibular disorders (TMD)

- Introduction to TMD: classification and diagnosis
- Etiopathogenesis of TMD: the role of occlusion
- Psychosocial evaluation of the patient with TMD during orthodontic treatment: what is the correct approach?
- TMD therapy: an overview

About 20 lectures (2 hours each) webinar (each one recorded and available for 1 week).

Case discussion session 2 weeks on site.



