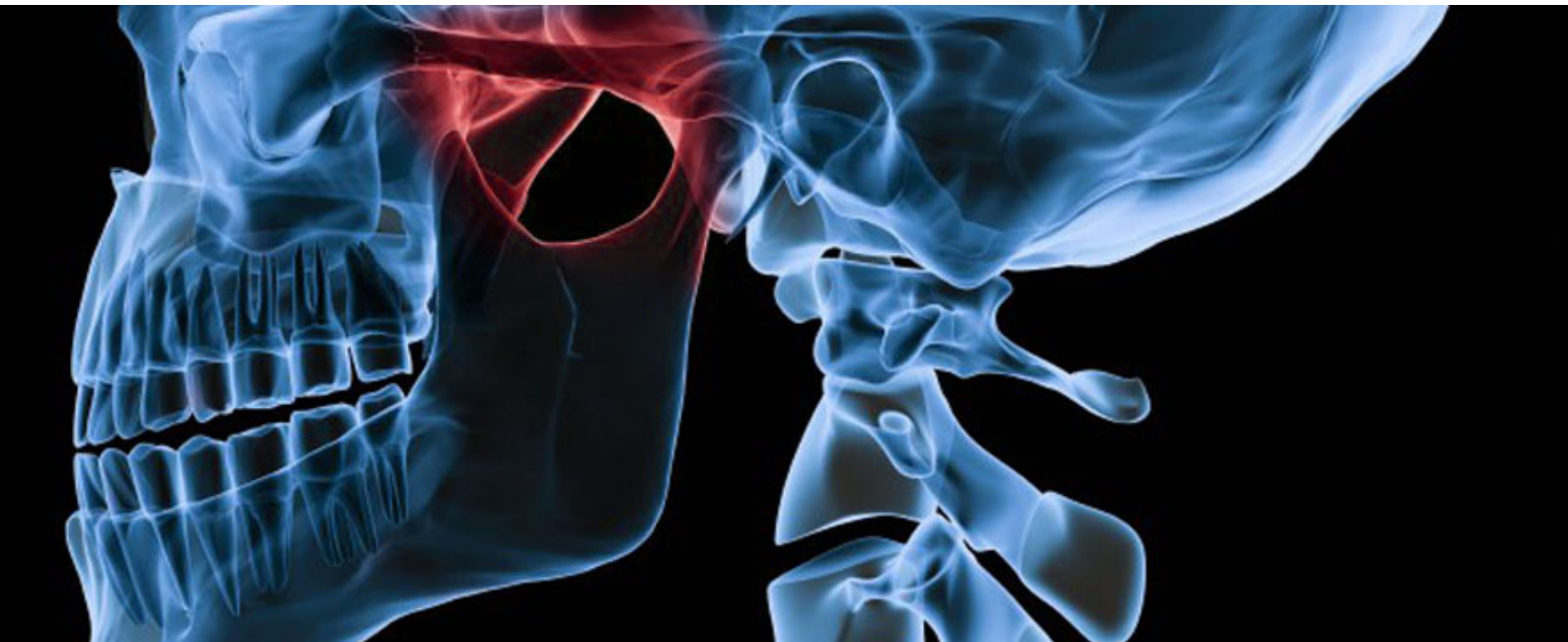


Theoretical-Practical Postgraduate Program

# ORTHODONTICS, OCCLUSION AND TEMPOROMANDIBULAR DYSFUNCTION

New concepts in diagnosis and treatment planning

*February 2016*



*Aimed at Dentists and Physiotherapists\**

*\*Only the third session will be open to Physiotherapists*

*Limited to 25 attendees!*

**SAN SEBASTIÁN**  
Osteoplac Center  
· SPAIN ·

# SPEAKERS



## **Dr. Guillermo Ochoa (Orthodontist, Argentina)**

- Dental Degree. National University of Córdoba (Argentina)
- Specialized in Orthodontics. National University of Buenos Aires (Argentina)
- Diploma in Craniomandibular, Craniovertebral and Facial Pain Dysfunctions. National University Andrés Bello (Chile)
- Professor of the Roth Williams International Society of Orthodontists (RWISO). (Argentina)
- Director and conductor of the Kinesics Stabilizer Functional Orthodontic Techniques Center (CETEKO)
- Director of the A.T.R.A. Research and Development Laboratory Center for TMJ Research



## **Dr. Domingo Martín (Orthodontist, Spain)**

- B.A. University of Southern California (USA)
- M. D. and D. D. S. (Medical and Dental Degree). University of the Basque Country (Spain)
- Master in Orthodontics and Dentofacial Orthopedics. University of Valencia (Spain)
- Diploma in Orthodontics by the FACE Roth/Williams Center for Functional Occlusion
- Postgraduate on Bioesthetic Dentistry. OBI (Foundation for Bioesthetic Dentistry)
- Director of the FACE/Roth-Williams Foundation in Spain and Portugal
- President of the FACE/Roth-Williams International Society of Orthodontics
- FACE Member
- Private practice limited to Orthodontics in San Sebastián (Spain)



## **Dr. Mariano Rocabado (Doctor in Physical Therapy, Chile)**

- Doctor in Physical Therapy. University of Chile and San Agustín University, Florida (USA)
- Specialist in Manual Orthopedic Therapy. Institute of Health Science, Atlanta (USA)
- Director at Medical Physical Rehabilitation Unit. Integramedica (Chile)
- Director at CEDIME (Center of Muscle-skeletal Dysfunctions Studies) Santiago de Chile
- Associate investigation professor at Valle del Paraiba University, Faculty of Science, Sao Paulo (Brazil)



## **Dr. Alberto Canábez (Orthodontist, Spain)**

- Dental Degree. University of Uruguay
- Validated Degree. University of Barcelona
- Diploma in Orthodontics by the FACE Roth/Williams Center for Functional Occlusion
- Member of the Spanish Orthodontics and Dentofacial Orthopedics Society (SEDO)
- FACE Member
- Private practice limited to Orthodontics in Barcelona (Spain)

## **Collaborators:**

**Dr. Amaia Maté (Orthodontist, Spain), Dr. Jaime Valenzuela (Orthodontist, Spain) and Mr. Ricardo Martins (Laboratory technician, Portugal)**

### **Type of Postgraduate Program:**

On-site postgraduate program

### **Length of the course:**

Five sessions of three or four days each

### **Language:**

English

# PROGRAM

## SESSION 1 Articular diagnosis

### Goal:

*To learn the basics of the anatomy, physiology and pathophysiology of the stomatognathic system. We will also learn to diagnose pain and relate this pain to anatomical structures. Understand and diagnose radiological images. Another important aspect will be to understand and manage joint sounds*

*18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> and 21<sup>st</sup> of February 2016*

- Diagnosis: anatomy and physiology of the TMJ
- Map of pain
- TMJ Pain - Map of pain:
  - Pain 1, 2 and 3: diagnosis
  - Pain 4, 5 and 6: diagnosis
  - Pain 7 and 8: diagnosis
- Radiological diagnosis of TMJ
  - Read and understand CBCT, RMN of TMJ images (tomography, magnetic resonance)
- Clinical details to consider in children's and teenager's TMJ diagnosis
- Cranio-facial pain diagnosis, related to muscular pain, muscular parafunction, headaches
- TMJ sounds
  - Classification and diagnosis
- Importance of mandibular dynamics
- Radiographic diagnosis of the vertical vertebrae
- Classification of subluxations and articular pathologies
- The importance of condylar position in the fossa
- Mandibular arthrokinematics
- TMJ: diagnosis and condylar position\*
  - Learn to capture the arc of closure
  - Wax bites
  - Facial bow
  - Articular mounting
  - Clinical advantages of a semi-adjustable articulator
  - Kennedy cuts for final diagnosis
  - Diagnosis set up
- Condylar position control using and understanding C.P.I and M.P.I.
- Occlusal diagnosis on the articulator



*\* Students must bring excellent impressions of their detition. Splints will be made*

### Goal:

*Understand and manage theoretical and practical basis of orthopedic interocclusal appliances to establish a differential diagnosis and an accurate treatment plan dependent on articular disorders*

*21<sup>st</sup>, 22<sup>nd</sup>, 23<sup>rd</sup> and 24<sup>th</sup> of April 2016*

- Condylar repositioning splint: construction, indications, use and management
- 3 Piece splint: construction, indications, use and management
- Distraction splints: construction, indications, use and management
- Anterior splints: construction, indications, use and management
- Anterior bite plane: construction, indications, use and management
- Different treatments with different splints
- Important aspects to take into consideration before placing the splint
- Important characteristics in the fabrication of the splint before its use
- Treatment planning for the TMJ and the musculature
- The importance of achieving a stable condylar position in the fossa
- When to know if we have a stable condylar position
- Electromyographic analysis of the different muscular actions depending on the placed splint
- What we “do not” do in our treatments and why
- Condylar seating in a muscular-skeletal stable position (C.R.)
- Management of the vertical dimension with splints
- Management of the vertical dimension with orthodontics
- The importance of reducing the anterior vertical dimension depending on the TMJ and occlusal stability
- Diagnosis and Treatment of Bruxism
- Presentation of clinical cases
- Presentation of clinical cases by students
- Splints:
  - Splint placement
  - Splints adjustment
  - Splint diagnosis



# PROGRAM

## SESSION 3 Cranio-cervical

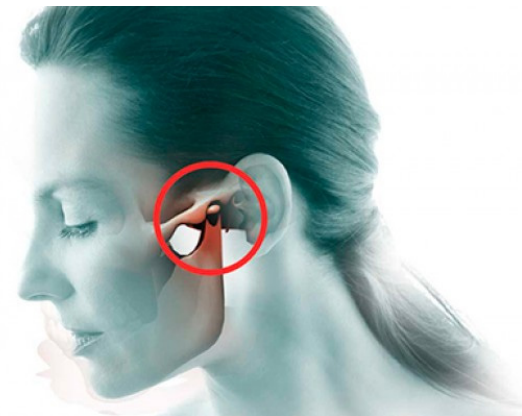
### Goal:

*Understand and manage theoretical and practical basis to connect clinically the cranio-mandibular unit with the cranio-vertebral unit. The importance of the physiological curvature and the influence it exerts over the mandibular position will be seen, and therefore the occlusion. Analysis and concepts about physiology and musculo-skeletal articular biomechanics*

*22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> of June 2016*

### Integration of functional units

- Centric-cranio-vertebral concept
- Temporomandibular joint and vertical column
- Analysis and cranio-cervical cephalometric tracing
- Lip seal: functional and non-functional 5%
- Cranio-cervical system and its interrelation with facial biotypes
- Arthrokinematics of the TMJ unit
- Map of articular pain of the TMJ
- Head and neck: Cervical-headaches
- Patients care: Physiotherapy in cranio-cervical-mandibular disorders



### Osteoarticular System

- Introduction to intra-articular disc pathology
- Disc-condyle and condylar-disc subluxation concept
- Intra-articular pathology of the TMJ: Avascular necrosis of the mandibular condyle, chondromalacia, degenerative processes. Clinical cases
- Progression of the disc pathology
- Physiotherapy in cranio-cervical-mandibular disorders
- Disc subluxations treatment: Disc reduction techniques
- Non reducible disc luxation treatment

### Soft tissue and craniovertebral

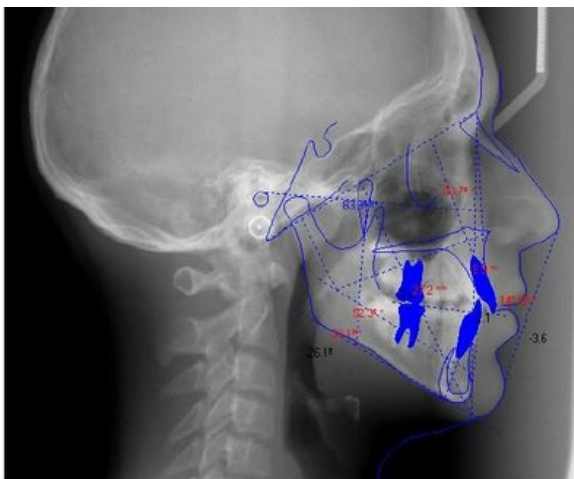
- Cervical craniofacial pain (clinical cases)
- Anatomic cuts of the sub-cranial column
- Cervical-facial pain
- Therapeutic techniques of the superior cervical column for degenerative processes of the inferior cervical column
- Mioaponeurotic/myofascial pain
- Muscular evaluation (cranial-cervical-mandibular)
- Importance of the soft tissues and their influence on the cervical column stability and instability, IX Unit: Dysautonomia

### Goal:

*Be able to diagnose future articular pathologies related to growth and development disorders.  
And to establish an accurate therapeutic approach for TMJ disorders*

*5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> of September 2016*

- Roth-Jarabak: clinical application and its implication on the diagnosis of the TMJ
- Roth-Jarabak: posterior growth analysis of the face and its relation on the articular pathology
- The importance of the diagnosis on the posterior mandibular rotation
- The influence of TMJ pathology on the maxillary and mandibular growth
- Posterior cranial base and its relation with subluxations
- Clinical vision of premature contact, importance and relation on the articular diagnosis
- Skeletal patterns, growth and articular pathology
- Articular pain
- What is vertical control?
  - Mandibular autorotation in pursuit of stability and articular health
  - Prevention among children
  - Treatments and clinical cases
- Posterior vertical control of the occlusion
  - The importance on the mandibular counterclockwise autorotation treatment
- Presentation of clinical cases



# PROGRAM

## SESSION 5

### Different articular pathology treatments - Clinical

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#### Goal:

*Learn to manage and treat different articular pathologies*

*28<sup>th</sup>, 29<sup>th</sup>, 30<sup>th</sup> of November and 1<sup>st</sup> of December 2016*

- Clinical cases of different articular pathologies: prescribed treatments
- Functional spaces
- Stretching and elongations of the articular capsule
- Long term controls, 4, 8 and 12 years: see the positive remodeling of the joints
- Degenerative articular pathology progression
- Treatments, exercises
- Disc mobilization
- Avascular necrosis
- Parafunction
- Clinical cases, different articular pathology treatments: subluxations, degenerative processes
- Clinical practice among students

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## FEES

- **Registration fee:** 500 euros
- **Total price of the course:** 10.000 euros (registration fee included)
- **Payment method:**
  - **1<sup>st</sup> payment:** 4.750 euros (10 days before the beginning of the first session)
  - **2<sup>nd</sup> payment:** 4.750 euros (10 days before the beginning of the third session)
- The account number to make the deposit is:

BANCO BILBAO VIZCAYA ARGENTARIA  
IBAN ES58 0182 0307 12 0010678615  
SWIFT BBVAESMMXXX

Name and surname must be included in the transfer's concept

Doctors interested in this course must complete the online registration at:

**[WWW.FORMEDIKA.COM](http://WWW.FORMEDIKA.COM)**

If you cannot attend the course, we will refund the tuition fees provided only if at least 45 days notice (before the course begins) is given. Since the postgraduate courses have a limited number of places, once the course has began, no refunds will be made.

If you do not attend the course due to delays or absences (e.g. illness), or if you abandon the course before it is completed, you will not have the right to get a refund, and you will have the obligation to pay all courses fees.

# REGISTRATIONS AND TECHNICAL SECRETARIAT

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