

# UNC DENTISTRY

Department of Prosthodontics

University of North Carolina  
at Chapel Hill, NC, USA



## I YEAR IMPLANT PROSTHODONTIC PROGRAM

Fernando Rojas-Vizcaya, DDS, MS





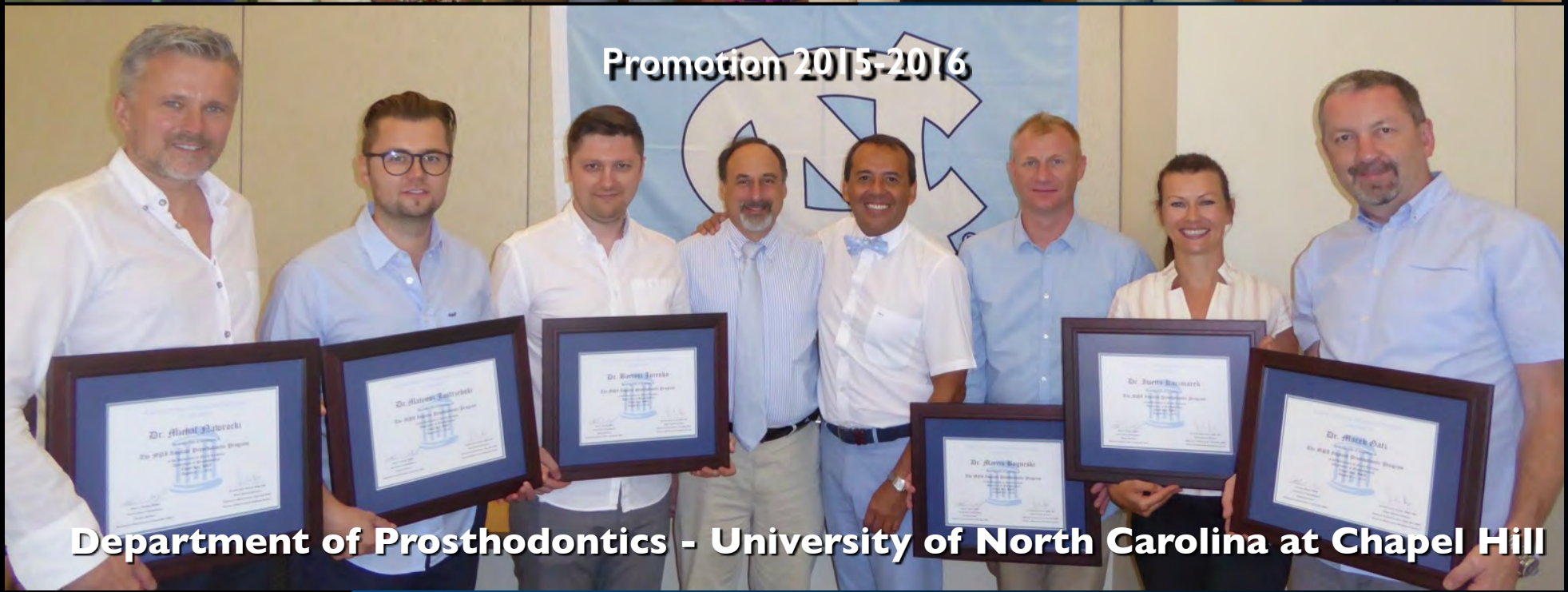
Promotion 2010-2011



Promotion 2013-2014



Promotion 2014-2015



Promotion 2015-2016

## ABOUT THE PROGRAM

The Implant Prosthodontic Program (IPP) was designed by Fernando Rojas-Vizcaya, DDS, MS for general dentists, oral surgeons or restorative dentists looking for the excellence in implant prosthodontics.

Participants will learn a Prosthodontics related philosophy to work with dental implants.

The program is one year in length spread over 4 sessions; the first 3 sessions (1 session is 4 full days) will be in the Mediterranean Prosthodontic Institute (MPI) in Castellon, Spain and the last session in the Department of Prosthodontics of the University of North Carolina at Chapel Hill. The IPP is supported by a Certificate from the Mediterranean Prosthodontic Institute (MPI) and a Certificate from the Department of Prosthodontics of the University of North Carolina at Chapel Hill (UNC) acknowledging the successful completion of the program. The program includes theory, hands-on workshops, materials for the program and case presentations by the attendees. The participants can take home all the models that will be used in the hands-on workshops.



Promotion 2013-2014 at the University of North Carolina at Chapel Hill

# Session I

## Day I

### Topics

Everything about the smile

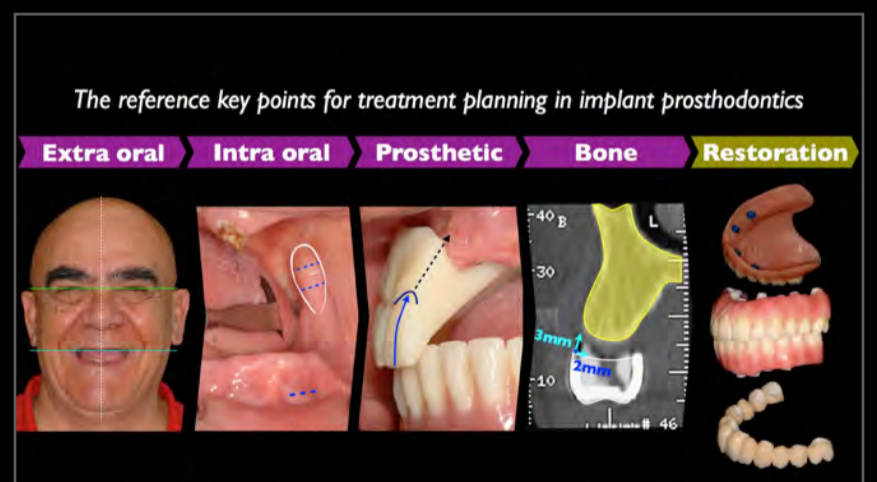
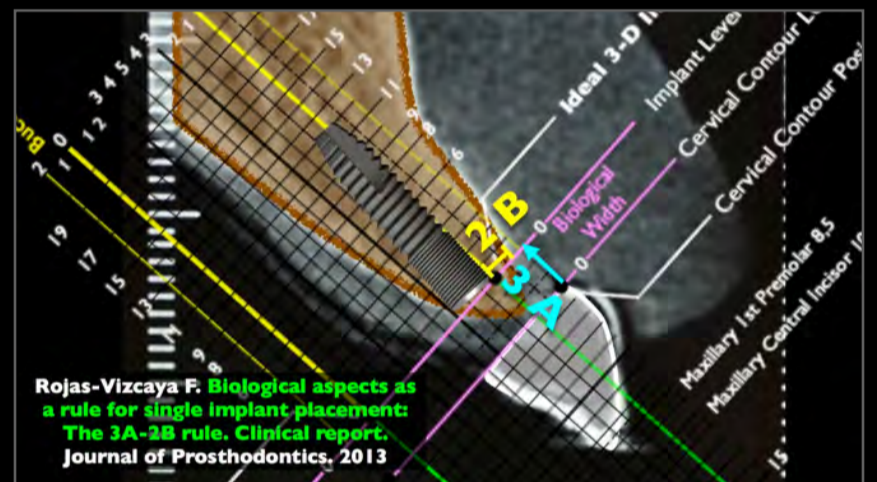
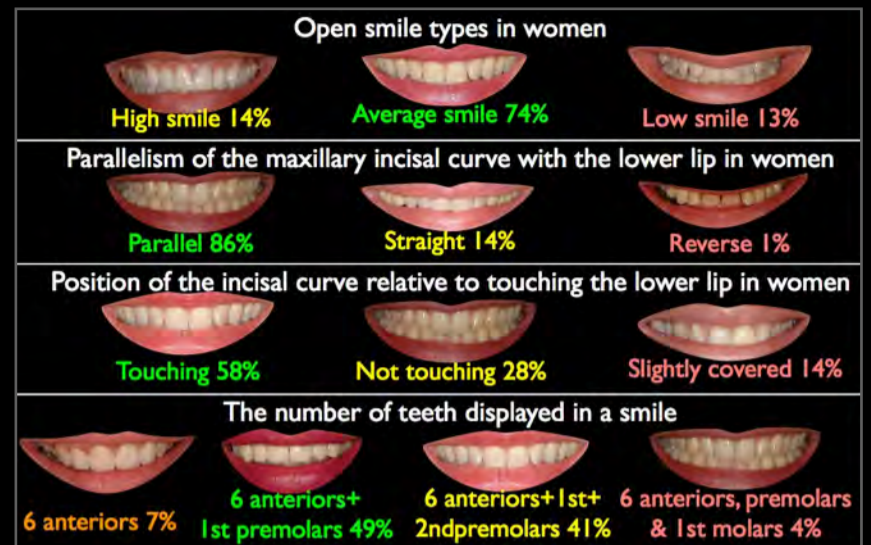
- Smile types
- Structural esthetic rules for case design: Tooth visibility, lip line, smile line, upper lip curvature, negative space, smile symmetry and occlusal line
- Gingival and dental components: Midline, golden rules, axial alignment, tooth arrangement and gradation

The 3A-2B biological rule for implant planning, placement and restoration (Dr. Rojas-Vizcaya. Journal of Prosthodontics 2013)

Treatment plan in comprehensive implant therapy. Advanced protocol developed by Dr. Rojas-Vizcaya for the diagnosis, analysis, planning and restoration of complex cases

### Hands-on Workshop

Application of the 3A-2B rule for single implant placement and immediate provisionalization in the esthetic zone



# Session I

## Day 2

### Topics

#### VIP Protocol

Integration of tomogram, facial scanner and intraoral scanner to develop the “Virtual Implant Patient” Protocol

- Digital treatment plan
- Computer guided surgery
- CAD/CAM abutments & restorations

Design and recommendations for monolithic zirconia fixed complete dentures

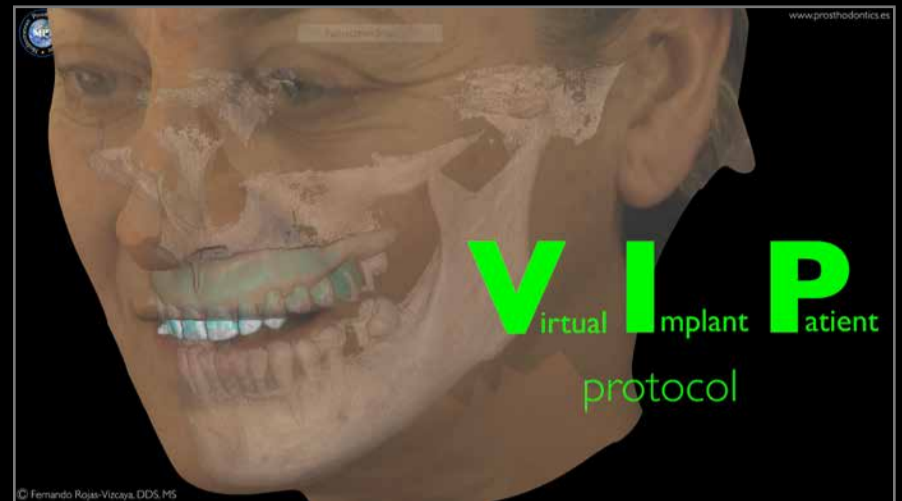
- Antero-posterior spread
- Number of implants
- Implant position
- Tilted implants
- Developing the gingival area
- Maintenance

Kelly’s combination syndrome

### Hands-on Workshop

Implant placement and immediate loading of the edentulous mandible

- Posterior tilted implants
- Conversion prosthesis technique
- Prosthesis tissue junction (PTJ)



# Session I

## Day 3

### Topics

Most Apical Buccal Bone Level Protocol (MABBL) for fully maxillary immediate implant placement and immediate loading restorations (Rojas-Vizcaya F. Journal of Prosthetic Dentistry 2012)

A novel prosthetically driven protocol to planning and restore complex cases with terminal dentition, using the 3A-2B rule

Clinical 10 years follow-up

### Hands-on Workshop

Most Apical Buccal Bone Level Protocol in a maxillary case with terminal dentition

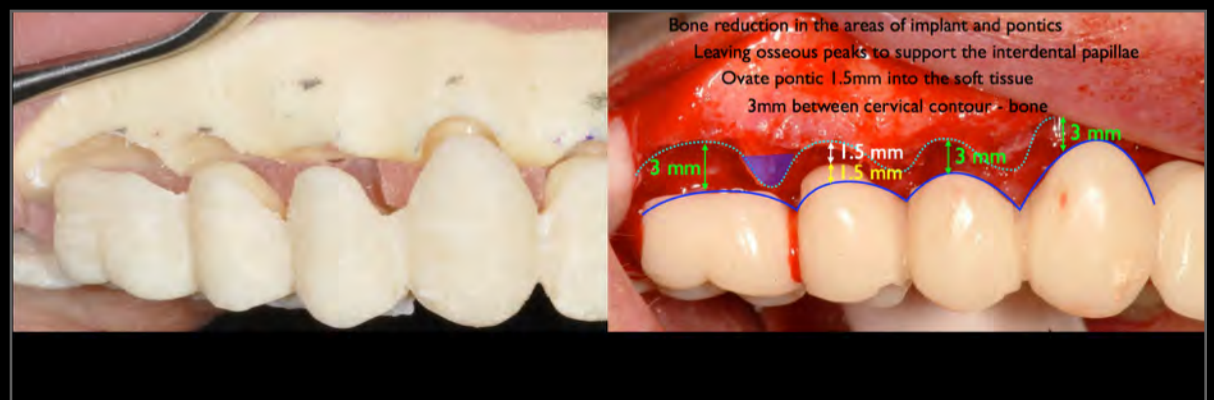
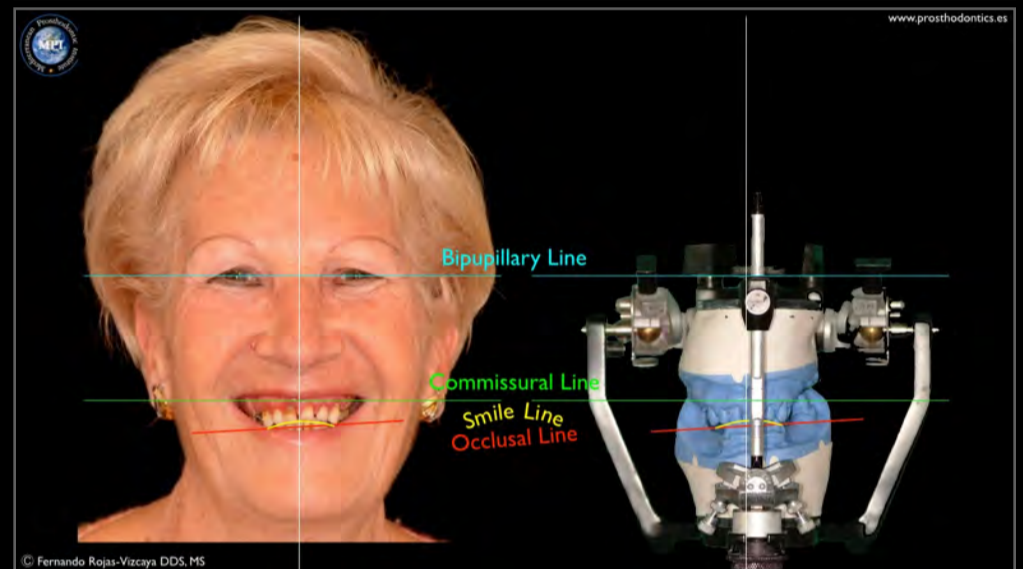
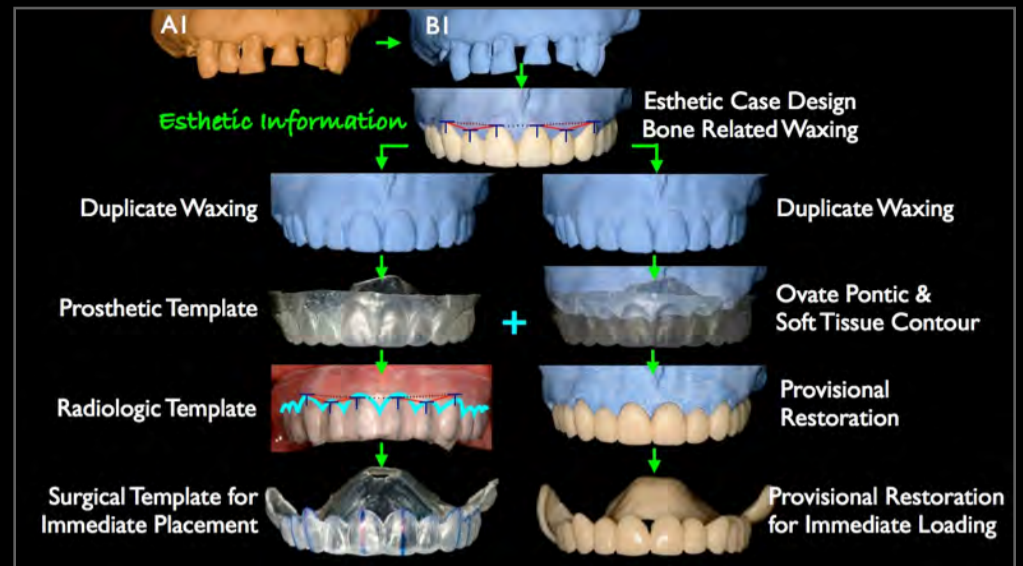
Case analysis and design

Bone sculpturing

3A-2B rule

Surgical technique and implant placement

Laboratory and prosthodontic technique



# Session I

## Day 4

### Topics

Delayed placement and conventional loading protocol for maxillary implant-supported fixed cement complete denture

- Treatment plan analysis
- Delayed soft tissue management in the laboratory
- Use of Gemini + Abutments

### Digital Clinical Photography

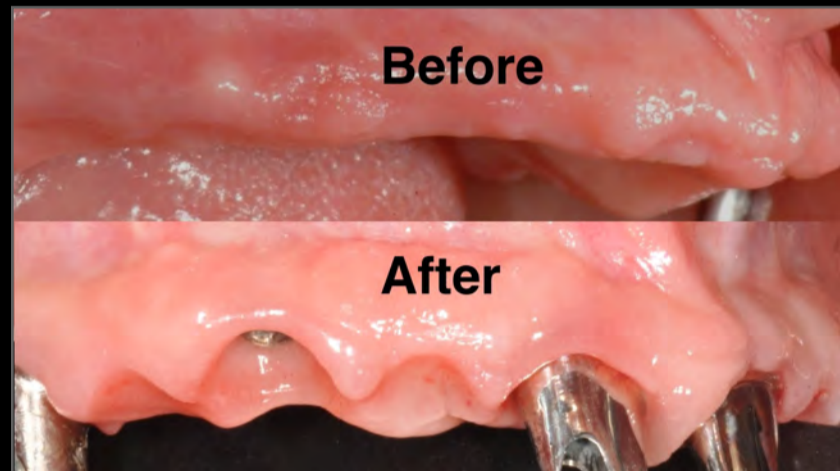
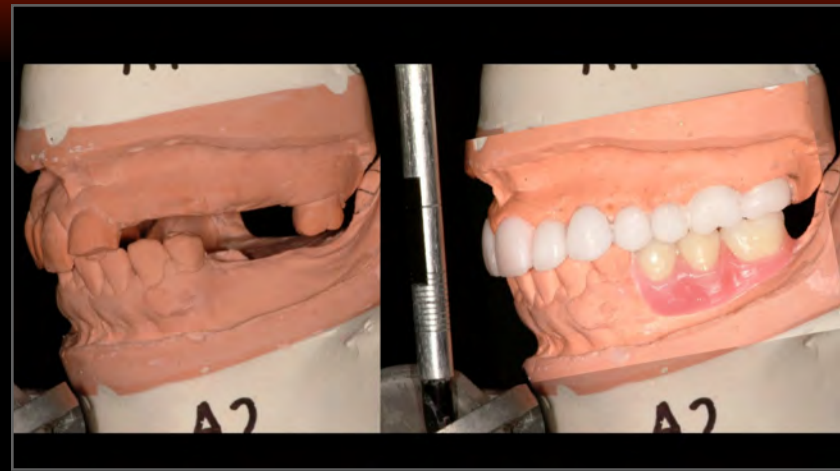
- MPI Protocol
- Extraoral protocol
- Intraoral protocol
- Laboratory protocol
- MPI photography kit

Tips for a keynote presentation

MPI students cases introduction

### Hands-on Workshop

Digital clinical photography  
Keynote presentations



# Session 2

## Day I

### Topics

Photo Smile Design for Edentulous Patients (Rojas-Vizcaya, F.J Prosthet Dent 2017)

- Use of keynote for smile design
- Digital and analogy case
- How to prepare the bone for delayed soft tissue management

Immediate placement drilling protocol

- Anatomical considerations
- Biological considerations
- Surgical & prosthetic guidelines
- Indications & contraindications

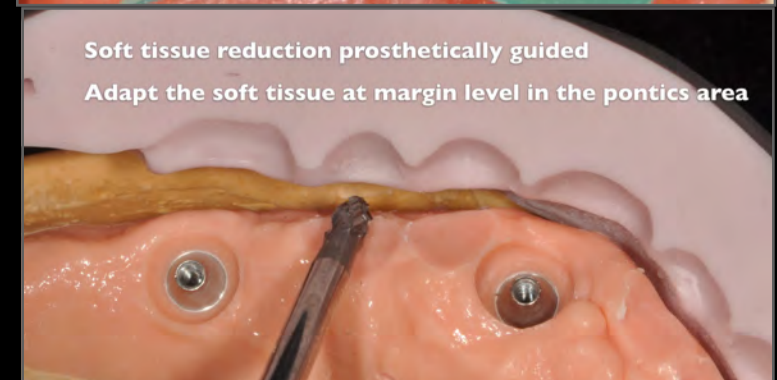
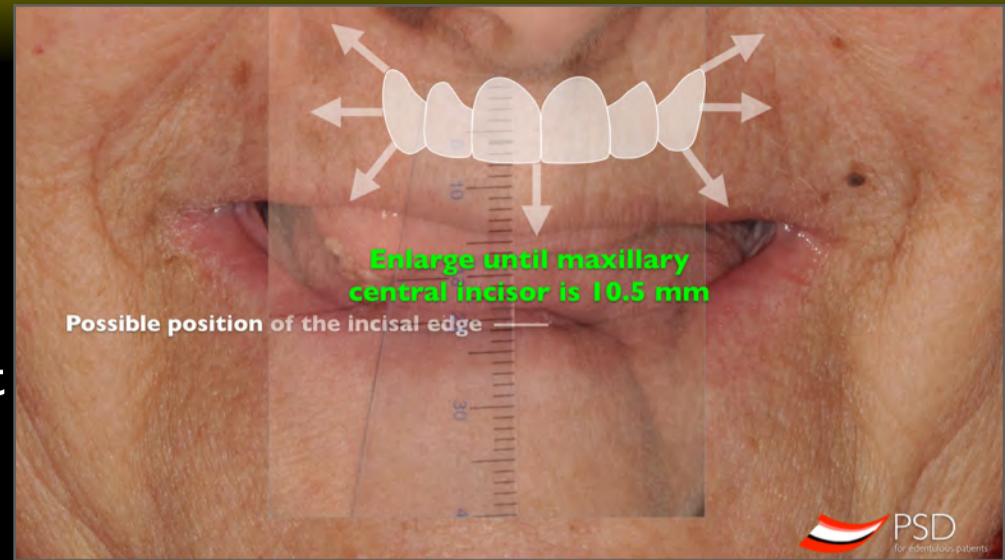
Single implant restorations

- Key factors to achieve a high esthetic result
- Key factors affecting the esthetic outcome
- Soft tissue management (how and when)
- Use of soft tissue level as reference

### Hands-on Workshops

Immediate single implant placement and immediate provisionalization using a regular platform implant

Prosthetic soft tissue management





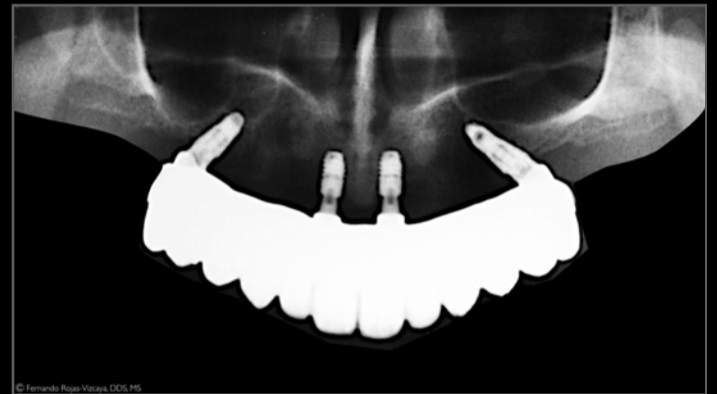
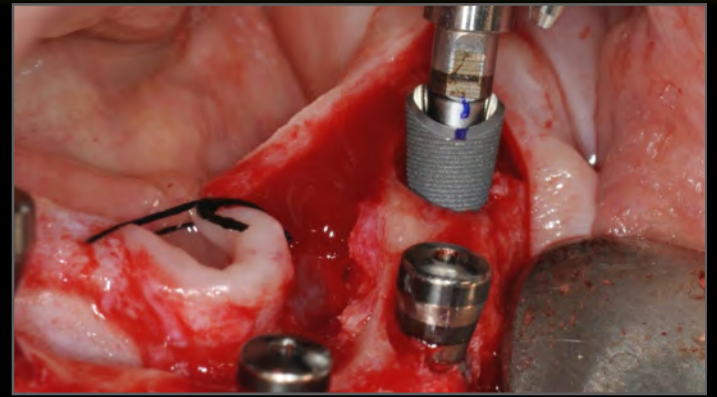
# Session 2

## Day 2

### Topics

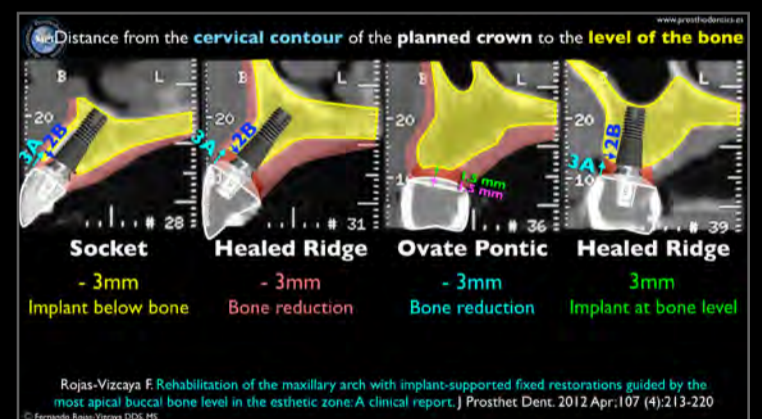
Sloped tilted implants for maxilar and mandibular immediate loading in 4 implants, using anterior axial implants and posterior sloped tilted implants (Rojas-Vizcaya F, Zadeh H, J Prosthet Dent. 2017)

- PSD protocol application
- Surgical & prosthetic technique
- Prosthesis Tissue Junction (PTJ) development
- Laboratory and prosthetic technique for double full arch monolithic zirconia restoration



Maxillary Immediate Placement and Loading Protocol (Rojas-Vizcaya F. J Prosthet Dent 2012)

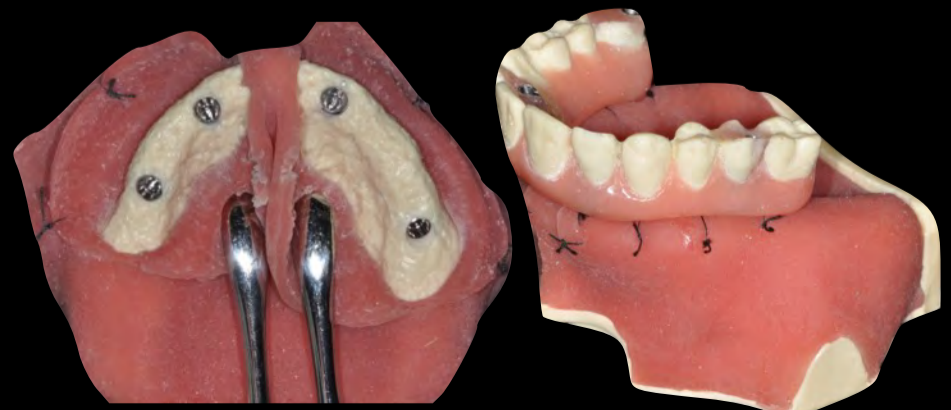
- Esthetic wax design
- Esthetic provisional restorations
- 3A-2B rule application in full arch restoration
- Ovate pontic site development
- Prosthetic, surgical & biological integration



## Hands-on Workshop

Maxillary implant placement and immediate loading protocol

- Tilted implants
- Conversion prosthesis



# Session 2

## Day 3

### Topics

#### Peri-implantitis

- Definition and diagnostic criteria
- Epidemiology
- Risk factors and prevention
- Treatment

#### Restorative options with zirconia restorations

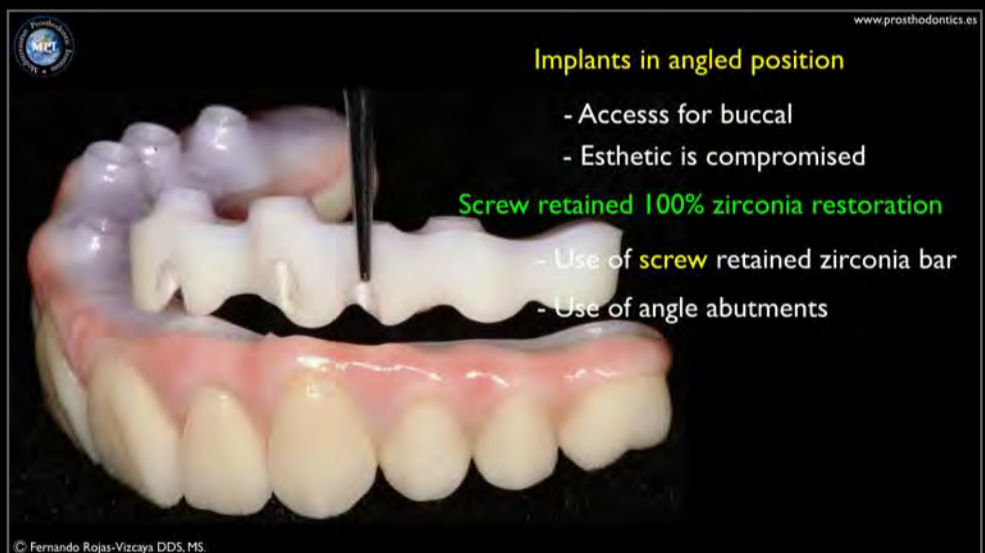
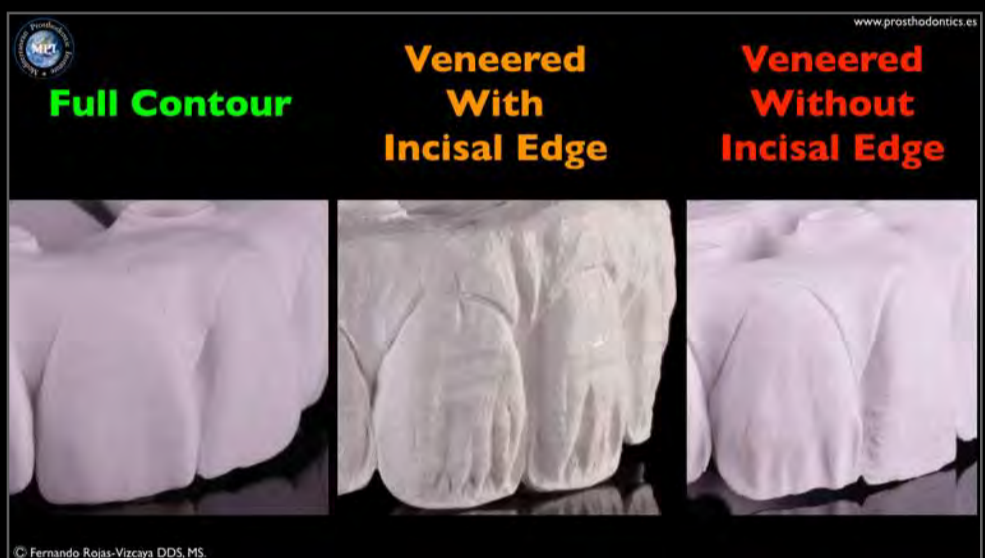
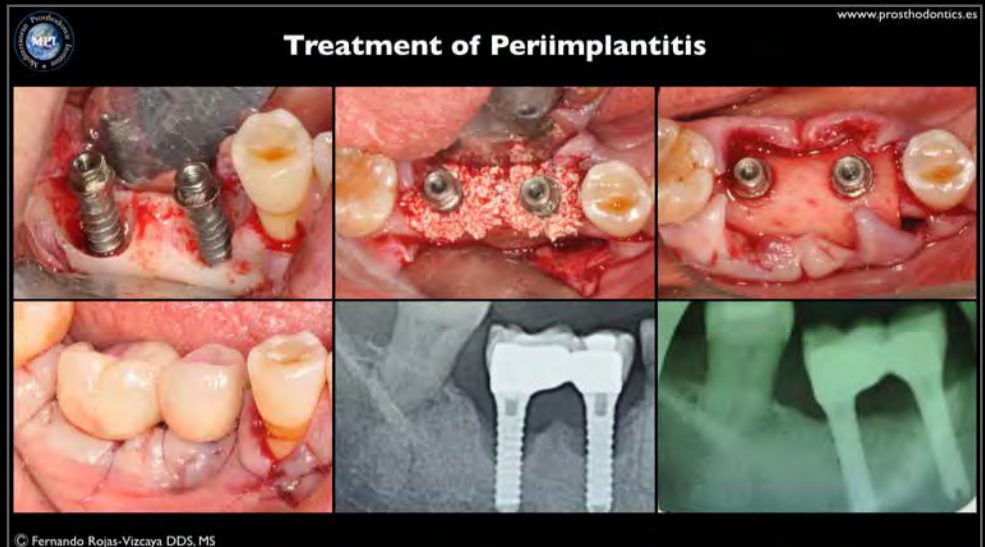
#### Revision of the existing literature regarding monolithic zirconia restorations

#### Different approaches for full arch restorations using dental implants

### Hands-on Workshop

#### Treatment of peri-implantitis in four different defects

- Implantoplasty
- Use of biomaterials



# Session 2

## Day 4

### Topics

Prosthetic soft tissue management for the esthetic zone in full arch rehabilitations

- Timming
- Removable prosthesis for soft tissue sculpturing
- Staged approach for soft tissue management
- Delayed implant placement



Narrow-diameter implants (NDI)

- Implants in the anterior mandible
- Risk of NDI
- Restoring the bone foundation
- Increasing the biotype
- Immediate provisionalization
- Zirconia Atlantis Crown Abutment



Staged approach for full mouth rehabilitation with dental implants

- Advantages & disadvantages
- Protocol for selective teeth extractions
- Prosthetic protocol for ovate pontic development
- Provisional restoration fabrication
- Implant placement & immediate loading



# Session 3

## Day I

### Topics

Introduction to EV sistem

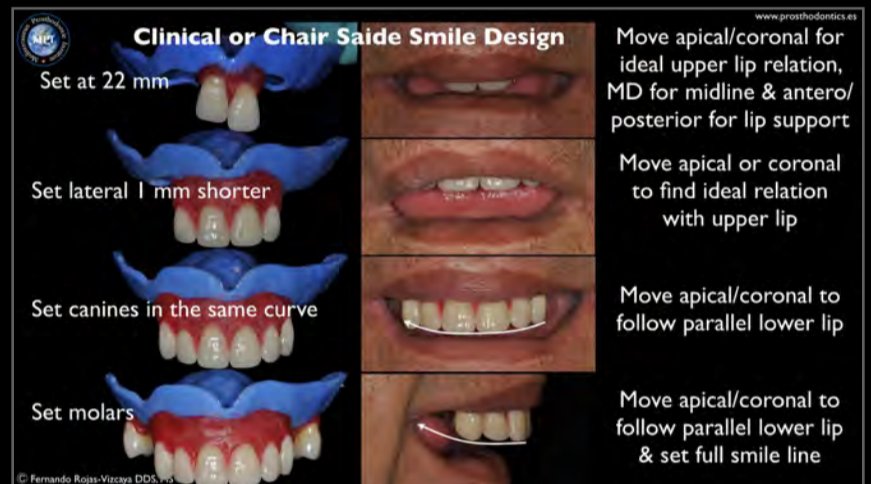
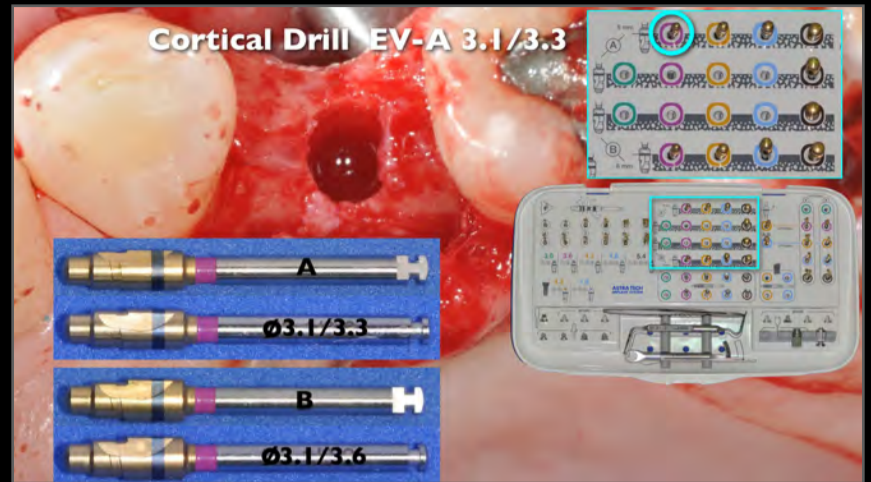
- Single restoration
- Drilling protocol
- Roll technique
- Provisional abutment management

Comprehensive surgical and prosthetic treatment plan for esthetic, segmented fixed CAD/CAM zirconia restorations in complete edentulous patients

- Biological, surgical and prosthetic integrated treatment plan
- Chair side smile design
- Immediate loading protocols
- Provisional abutments management
- Prosthetic soft tissue design
- Passive fit evaluation
- Cementation protocol

### Hands-on Workshop

Use of sloped dental implant in the extraction socket and healed ridge in the esthetic zone, and the immediate provisionalization protocol



# Session 3

## Day 2

### Topics

Maxillary anterior adjacent implants

- The effect of interplant distance
- Grafting the bone and soft tissue
- Prosthetic planning (3A-2B rule)

Splint teeth and implants (TISP)

- Mobility patterns
- Avoiding the tooth intrusion
- Technical complications
- Biological complications
- Advantages
- Tripod concept for implants
- Zirconia copings for teeth
- Guidelines for TISP

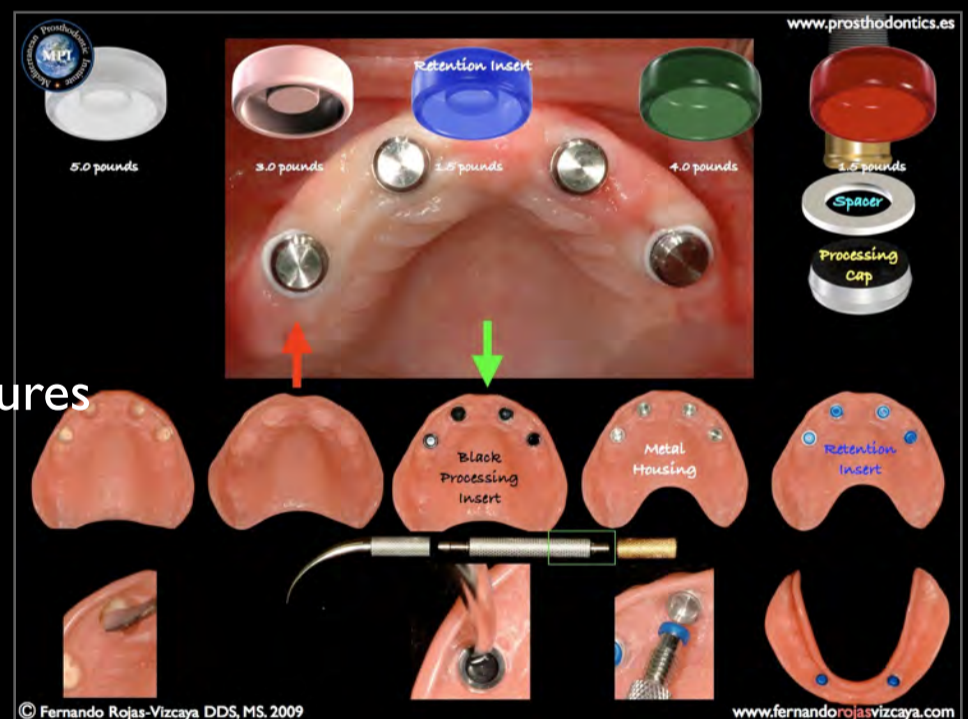
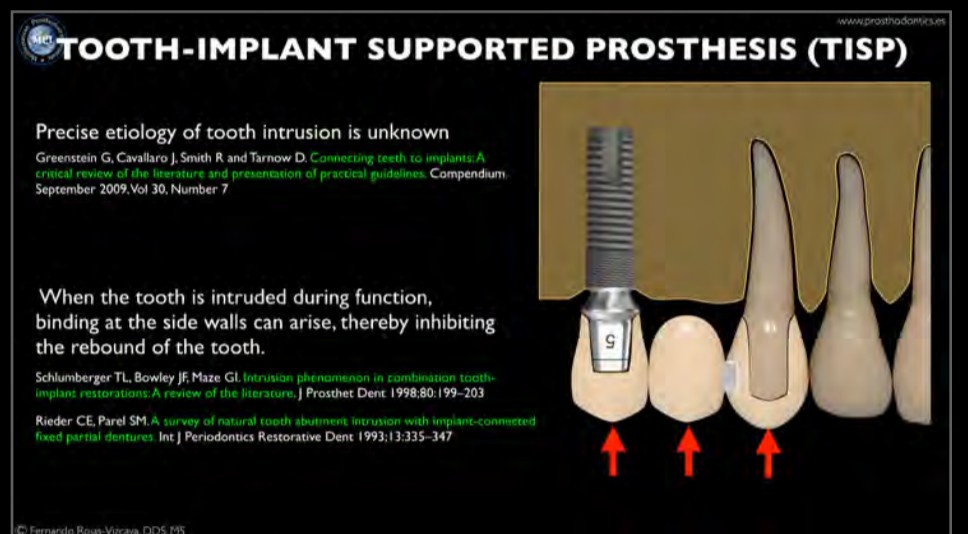
Maxillary and mandibular over-dentures

- Indications
- Number of implants
- Implant position
- Abutment selection
- Complications

### Hands-on Workshop

Mandibular overdentures

- Implant placement
- Abutment selection
- Conversion prosthesis



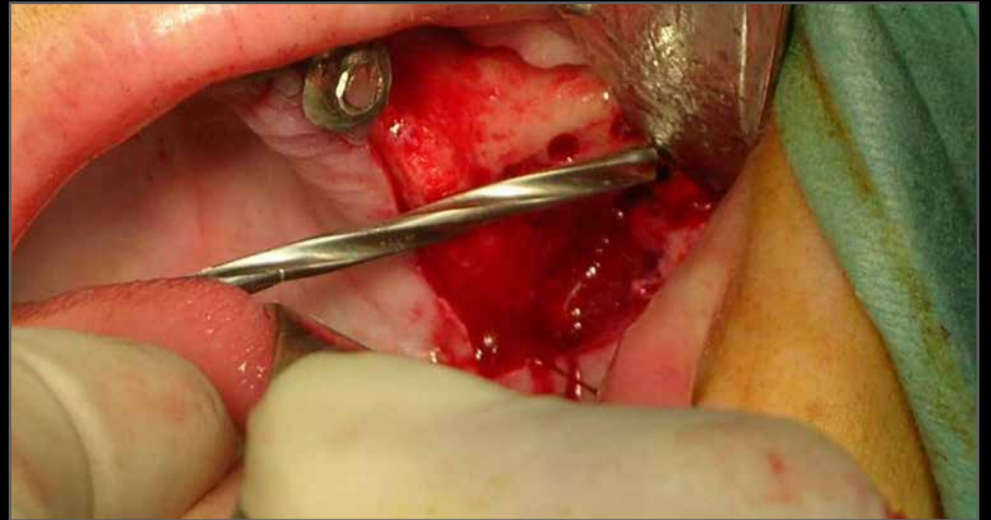
# Session 3

## Day 3

### Topics

Treatment options for rehabilitation of posterior maxilla

- Short implants
- Pterygoid implants
- Zygomatic implants
- Tilted implants



Sinus augmentation techniques

- Summers (osteotomes)
- Lateral approach (Caldwell-Luc)



Sinus complications

- Intraoperative complications
  - Perforation sinus membrane
  - Bleeding
- Immediate postoperative complications
  - Pain and swelling
- Delayed-onset postoperative complications
  - Sinus infection
  - Accidental displacement of implant
  - Oro-antral fistula



### Hands-on Workshop

Sinus lift techniques

- Summers
- Caldwell-Luc
- Use of biomaterials



# Session 3

## Day 4

### Topics

Occlusion for dental implants

- Full-arch fixed prostheses
- Overdenture
- Posterior fixed prosthesis
- Anterior fixed prosthesis
- Single implant prosthesis

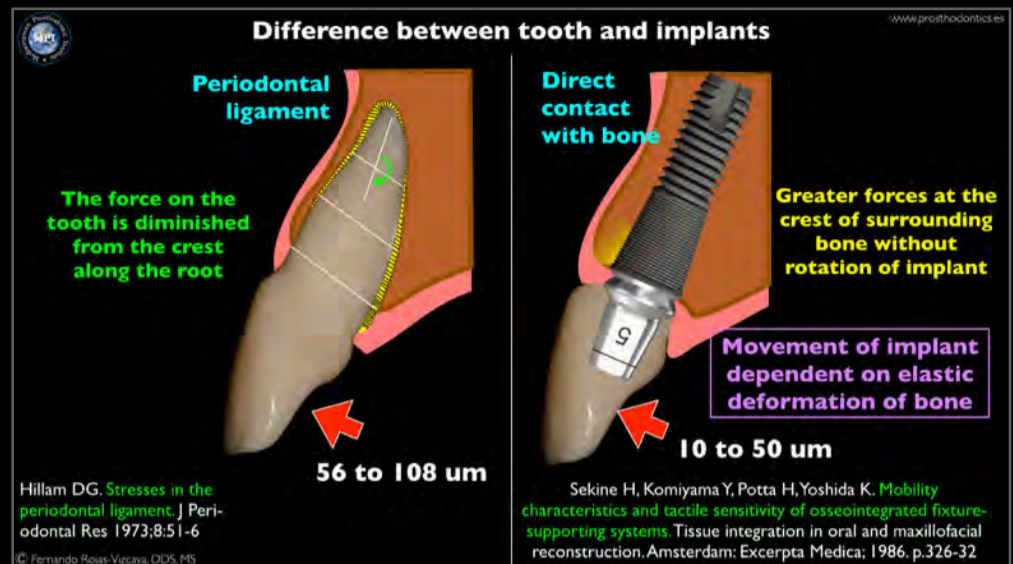
Prosthodontic treatment plan sequence for maxillary restoration in class III patient with terminal dentition

- Atlantis solutions

All-on-8: Case in a day

- Bimaxillary immediate placement and immediate loading
- Protocol for a full day case

### MPI certificate ceremony



# Session 4

## Day I

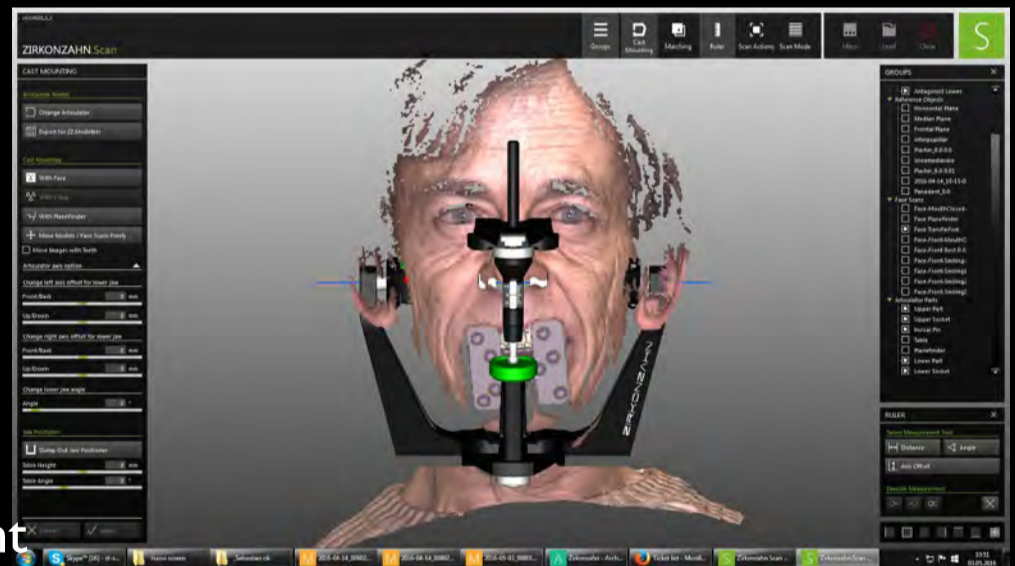
### Tour in the University of North Carolina



## Topics

The Virtual Implant Patient (VIP) protocol for the edentulous patient

- Facial scanner
- Intraoral scanner
- Virtual treatment plan
- Computer guide surgery
- Provisionals from the virtual patient



Case presentation by participants

The esthetic CAD/CAM abutment

Cemented vs screw retained restorations





# Session 4

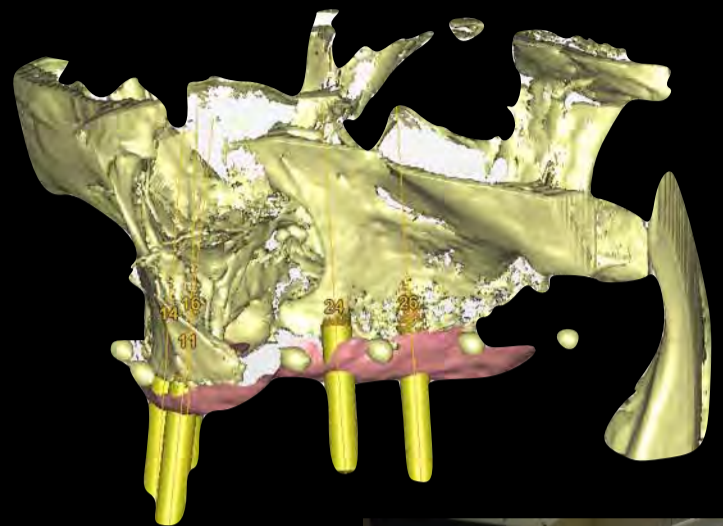
## Day 2

### Topics

The restoration of the palatal cleft patient with a fixed prosthesis

- Treatment plan options
- Sequence of treatment
- Computer guide surgery
- Surgical and prosthetic aspects

Case presentation by participants



The smart fix concept in the full mouth rehabilitation

- Components
- Technique presentation
- Application in maxilla and mandible

Case presentation by participants



### Hands-on Workshop

The mandibular immediate loading protocol

- Bone regularization
- Implant placement
- Simultaneous GBR
- Use of sloped tilted implants
- Conversion prosthesis technique



# Session 4

## Day 3

### Topics

#### Computer guide surgery

- System presentation
- Surgical guided treatment plan
- Drilling protocol
- Implant placement



#### Case presentation by participants



#### Provisional restorations in fixed cases

- Components in esthetic outcome
  - Transitional contour
  - Embrasure design
- Different approaches
  - Intraoral indexing
  - Pick-up plastic copings
  - Prefabricated transitional contour copings



#### Case presentation by participants

#### Complications in implant dentistry

- Surgical complications
- Prosthetic complications



# Session 4

## Day 4

### Topics

The 3A-2B rule and immediate provisionalization

- Summary of the concepts
- Comprehensive treatment plan
- Protocol for bone reduction
- Protocol for immediate provisionalization

Case presentation by participants

Full mouth rehabilitation using CAD/CAM abutments without provisional restorations

- Treatment planning
- Prosthetically driven protocol
- Delayed implant placement
- Prosthetic soft tissue management



### Certificate ceremony

Department of Prosthodontics

University of North Carolina  
at Chapel Hill



# Testimonials



**Dr. Grzegorz Wasiluk**

Gdynia - Poland

I Promotion 2010- 2011

The first edition of the MPI Program completely changed my vision about implantprosthetic treatment. All the pathways which doctor Fernando Rojas showed us during the program, gave me a new comprehanced knowledge on what I do every day in my office. The concepts that we've learned are all extremely up to date and I'm using them since I finish the program. If one word should name the MPI program, it would be „complete”.



**Dr. Jarek Matuszak**

Mierzyn - Poland

I Promotion 2010- 2011

I was involved in 1st Edition of Implant Prosthodontic Program. It was a milestone in my implant work and opened my eyes for many things, i did not see before. It was perfectly prepared in all aspects with highest possible level of actual knowledge. I can strongly recommend this program to everybody, who wants to get excellence in Implant Dentistry. Thanks Fernando once again.



**Dr. Piotr Kuśnierz**

Krakow - Poland

I Promotion 2010- 2011

Dr Fernando Rojas-Vizcaya became my inspiration to work hard, to learn more, to treat for the best way. He is my Mentor and friend. I'm thankful that I met him during my implanto-prosthodontics way.

His knowledge, passion and skills are unforgettable.

# Testimonials



**Dr. Tomasz Wagner**

Słupsk - Poland

II Promotion 2013- 2014

I think the course run by MPI, I participated in, was one of the best things I could have done for my career as an implantologist. I really appreciate Fernando Rojas Vizcaya skill and knowledge and I am really grateful for the opportunity to learn from him and spend time with him in such nice place- Castellon in Spain. I can highly recommend MPI's Implantoprosthesis Program to everyone who wants to gain expertise in implantoprosthesis treatment



**Dr. Kamil Abed**

Warszawa- Poland

II Promotion 2013- 2014

Program MPI was one of the best courses in which I attended recently. What is the most important aspect is practical training. Dr. Fernando Rojas in detail, is committed to provide the knowledge and teaches proper treatment planning, implant and prosthesis. Each of the stages of the training was well prepared and consistent with the theme of the training. Both Dr. Fernando Rojas and his team were always prepared and helpful. I would definitely recommend MPI program.



**Dr. Magdalena Żywicka**

Jelenia Góra - Poland

II Promotion 2013- 2014

Dr. Fernando Rojas Vizcaya: The idea planning approach offered and presented by Dr Fernando Rojas Vizcaya is just perfect. His very unique and very personal care over every student was unparalleled to any other lecturer I have seen before. I am totally enchanted his idea of dentistry and how he understand his obligation to his patients.

MPI: Very high educational level combined with the travel and heritage unique attractions of Castellon de la Plana.

# Testimonials



**Dr. Wencysław Stoiczko**

Gdansk - Poland

**III Promotion 2014- 2015**

In my 24 years of work experience I have attended many courses but this course run by MD Fernando Rojas-Vizcaya is the most valuable and profesional. Informations are condensed and systematized. Possibility of discussion and clarification of doubts let increase your knowledge for implantation and prosthetics solutions based on implants. Warm atmosphere connected with charisma of MD Rojas-Vizcaya and engagment of whole MPI team at the same time you discover culture and cusion of Spain, Italy and US.



**Dr. Mateusz Jastrzebski**

Lubań - Poland

**IV Promotion 2015- 2016**

MPI program I attended was absolutely brilliant. Not only it's a thoroughly run, but also the atmosphere and the specialist lectures are of the high caliber. The staff was professional at every level. This course is an eye opener and I would highly recommend it to all specialists already being experienced in implantology to enhance their skills. It gave me a great confidence on an international level. Just go for it- it's worth it.



**Dr. Bartosz Jurenko**

Krosno - Poland

**IV Promotion 2015- 2016**

The course is extraordinary- absolutely one of a kind. Thank You and Your Team for the outstanding hospitality . I have done quite a few courses but none like this. I have learned implant prosthodontics procedures that have greatly improved my viewpoint in practicing implant dentistry.

# Testimonials



**Dr. Marcin Bogurski**  
Koszalin - Poland  
IV Promotion 2015- 2016

How valuable are meetings at MPI. I have known for a while. So, going to Castellon, I knew would be a milestone in my education. Today, almost a year after graduating from MPI, I am dividing my professional career into two stages - before and after Vizcaya. In my opinion Fernando's course was one of the best investments I have made for training, and our friendship continues to this day. My high recommendation



**Dr. Michal Nawrocki**  
Gdansk - Poland  
IV Promotion 2015- 2016

Two years ago I decided to attend The Implant Prosthodontic Program. It was an idea that really hit the bull's-eye. Lectures, workshops, the whole course was on a very high level and I gained a huge amount of knowledge and all of this was in a friendly atmosphere. My skills and view on dentistry are now on quite different - much higher level. Thank you Fernando :)



**Promotion 2016-2017 at the Mediterranean Prosthodontics Institute**

# FERNANDO ROJAS-VIZCAYA, DDS, MS

## Prosthodontists & Oral Surgeon

Post-Doctoral Implant Research Fellow	2005-2006	University of North Carolina, USA
Specialty Degree in Prosthodontics	2002-2005	University of North Carolina, USA
Master of Science in Prosthodontics	2002-2004	University of North Carolina, USA
Doctorate in Medicine and Bucco Facial Surgery	1998-2000	University Complutense of Madrid, Spain
Specialty in Osseointegrated Implants	1994-1995	University Complutense of Madrid, Spain
Specialty in Oral Surgery	1993-1994	Hospital Gregorio Marañón of Madrid, Spain
Specialty in Oral Medicine	1992-1993	University Complutense of Madrid
General Practice Residence	1990-1991	Health Department of Champagnat School of Bogotá, Colombia
DDS	1985-1989	University Javeriana of Bogotá, Colombia
Bachelor	1970-1984	Calasanz High School of Bogotá, Colombia



## ABOUT THE DIRECTOR



Dr. Rojas-Vizcaya is Adjunct Assistant Professor in the Department of Prosthodontics at the University of North Carolina in Chapel Hill, NC. He is the Founder and Director of the Mediterranean Prosthodontic Institute, BoneModels and dentalidea, and maintains a private practice limited to dental implant surgery and prosthodontics in Castellon, Spain. He is the Director of the Charter Chapter of the Academy of Osseointegration in Spain.

Dr. Rojas-Vizcaya received his DDS degree at the University Javeriana School of Dentistry in Bogota, Colombia. South America. He received a Doctorate in Buccal Surgery and his University Specialty Degrees in both; Oral Medicine and Implant Surgery at the University Complutense in Madrid. He received his Certificate training in Oral Surgery at Gregorio Marañon Hospital in Madrid, Spain.

Dr. Rojas-Vizcaya completed his post-graduate specialty degree in Prosthodontics along with a Master of Sciences Degree in Prosthodontics, and a Fellowship in Oral Implantology at the University of North Carolina in Chapel Hill, USA.



# Implant Prosthodontic Program

**Place:** 1st, 2nd & 3rd session in Mediterranean Prosthodontic Institute in Castellon, Spain

4th session in Department of Prosthodontics  
University of North Carolina at Chapel Hill

**Format:** Theoretical and hands-on workshops

**Language:** English

**Faculties:** Dr. Fernando Rojas-Vizcaya, Dr. Lyndon Cooper and professors from the Department of Prosthodontics in UNC

**Included:** Advanced lectures

Surgical and prosthetic BoneModels for each session

Surgical and restorative demo components from Dentsplysirona

Printed and online material

Lunch and coffees

Certificates of completion

**Flight tickets and accommodations are not included**

**Price:** 12.000 Euros

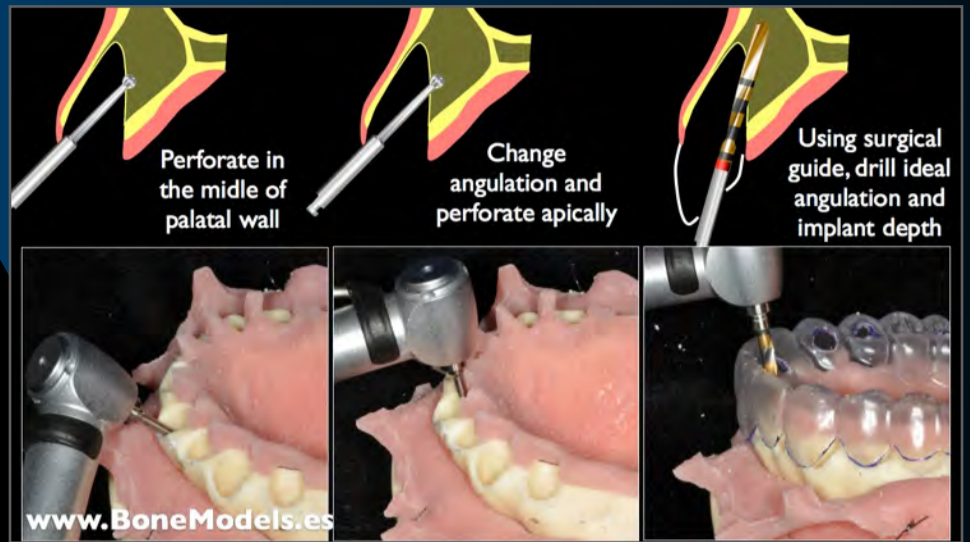
**Register:** arantxa@prosthodontics.es  
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www.prosthodontics.es

# IMPLANT PROSTHODONTIC PROGRAM



IPP-MPI-UNC Promotion 2014-2015

**Small groups**



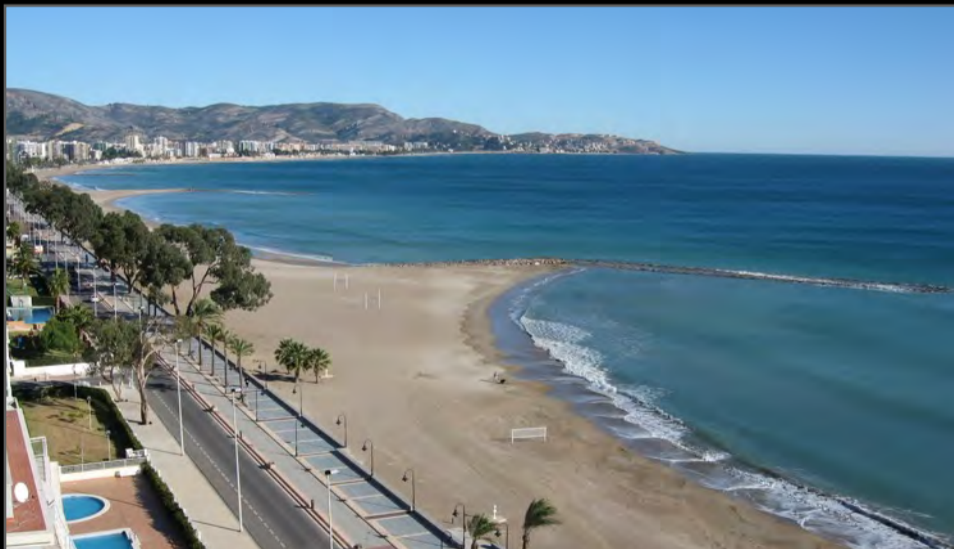
**High-tech presentations**



**All lectures in books**



**Personalized education**



**In a relaxed environment**



**Unique anatomical models**

**Information: [arantxa@prosthodontics.es](mailto:arantxa@prosthodontics.es)**

**[www.prosthodontics.es](http://www.prosthodontics.es)**