

8TH IAOCI WORLD CONGRESS INTERNATIONAL ACADEMY OF CERAMIC IMPLANTOLOGY

New Frontiers in Metal-Free
Implant Dentistry

PROGRAM

February 14-16, 2019
GRAND HYATT
Tampa, Florida



Vladimir Kokovic



Francisco Casadesus



Sammy Noubissi



Amos Yahav



Cristine Finco



Andrea Borgonovo



Saurabh Gupta



William Locante



Andre Chen



Rodrigo Beltrao



Luis Alicea



Takahiro Ogawa



Dirk Duddeck



Richard Miron

IAOCI

INTERNATIONAL ACADEMY OF
CERAMIC IMPLANTOLOGY

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INTERNATIONAL ACADEMY OF CERAMIC IMPLANTOLOGY



Dear Friends and Colleagues,

On behalf of the IAOCI, it's a great pleasure and honor to welcome you to the International Academy of Ceramic Implantology 8th Annual World Congress (IAOCI 2019) which will be taking place in Tampa, Florida in the USA, from February 14th to 17th 2017. The theme this year is: "New Frontiers in Metal Free Implant Dentistry"

The IAOCI World Congress is an international meeting with a first-rate scientific program delivered by top international, regional and national speakers. The academy through this yearly congress promotes and delivers innovative and forward-thinking ideas through workshops, lectures and symposia that enhance the understanding of and the rationale for ceramic implants. This is an event where scientists, clinicians, students and manufacturers gather to have access to, learn from and exchange with the

largest community of international experts in dental bioceramics science and technology. Furthermore this year's congress is exceptional in that we are immensely proud and honored to be endorsed by the prestigious American Ceramic Society which is the world's largest and most established association in the field of ceramics and bioceramics.

No other event will offer a more comprehensive and innovative series of workshops and lectures dedicated to safe, predictable, aesthetic and metal free ceramic implantology. The distinguished speakers from all over the world will be addressing topics such as the role of implant materials in peri-implant health, zirconia as an implant and implantable material, mechanism of osseointegration of ceramic implants, the latest advancements in zirconia implant design and engineering and much more!

MISSION

IAOCI's 8th World Congress' mission is to provide the attendees with an in-depth science-based program along with clinical evidence on the viability and success of metal free oral implantology. The Congress will address all contemporary concepts and philosophies related to the applications of bioceramics in implant dentistry.

LEARNING OBJECTIVES

Participants will gain an understanding of:

- Full Arch and Full Mouth Reconstructions on Zirconia Implants
- Treatment Planning and Outcomes: Two-piece vs One-piece Design
- Surface modification of Zirconia Bioceramics
- Osseointegration of Zirconia versus Titanium Implants
- Soft Tissue Stability Around Zirconia Implants
- Bacteriology around Zirconia Implants versus Titanium Implants
- Innovations in Ceramic Implantology
- The role of thrombocytes aggregates in bone remodeling and wound healing
- Management of clinical complications

Please join us at the Grand Hyatt Hotel in Tampa, Florida for what will be a unique and total immersion into bioceramics and metal free materials for implant rehabilitation.

Sammy Noubissi, DDS, MS
President

Tampa Bay Hotel on the Upper Shores

Experience the breathtaking spaces of Grand Hyatt Tampa Bay where magical things happen and the world is your stage. Set among a 35-acre nature preserve on the upper shores of the Bay, our hotel in Tampa Bay invites you to unwind in the unspoiled beauty of one of Florida's most picturesque locales. Be prepared to relax, get pampered, and have a grand time.

What Makes Your Stay Grand:

- Luxury accommodations: Relax in our deluxe guestrooms, suites, and casitas with free Wi-Fi, Hyatt Grand Beds, plush robes, and refrigerators and NO Resort Fees
- Free Parking and Free Airport Shuttle
- Near many attractions: Explore the best of Tampa Bay, from the Florida Aquarium to local museums and golf courses, all within minutes of our hotel
- Premium recreational amenities: Cool off during your stay, with a visit to one of our two pools or take a relaxing soak in the outdoor whirlpool
- Meetings with a purpose: Book a memorable meeting or gathering that will leave your guests and attendees wanting more in our 22,000 square feet of event space
- Dining with a view: Enjoy dining at our award-winning restaurants Armani's and Oystercatchers and sip cocktails on our patio where the sunset is your company
- Discounted Room Rate of \$229.00 per night.

Grand Hyatt Tampa Bay | 2900 Bayport Drive | Tampa, Florida, USA, 33607

To reserve lodging, call the hotel at 813-874-1234, and use the group name IAOCI. Online reservations can be made by using the following link: https://tampabay.grand.hyatt.com/en/hotel/home.html?corp_id=G-IAOC



Schedule at a Glance

THURSDAY FEBRUARY 14

Thursday February 14, 2018 – Morning Workshops

8:30-12:00	Workshop 1a	Amos Yahav - Bone Graft Cements
8:30-12:00	Workshop 1b	Paul Petrunaro - Immediate Extraction and Placement Surgery Utilizing Ceramic Dental Implants For Superior Aesthetic Results

Thursday February 14, 2018 – Afternoon Workshops

1:30-5pm	Workshop 2a	PRF-EDU/Rick Miron - Platelet Rich Fibrin in Regenerative Dentistry: From Biological Background to Clinical Applications
1:30 -5pm	Workshop 2b	Dr. Judson Wall - Laser Augmentation of Zirconia Implant Placement

Thursday February 15, 2018 – Evening Welcome Cocktail Reception 7:00 p.m. Grand Hyatt Tampa Bay

FRIDAY FEBRUARY 15

Day 1: Friday – Morning

Chapter 1: “Zirconia – Material Properties”

8:00 - 9:00	Takahiro Ogawa, USA	Can Zirconia Be an Alternative Material To Titanium in Dental Implantology
9:00 - 10:00	Saurabh Gupta, IND	Surface Topography and Cellular Response to Zirconia Implant Materials
10:00 - 10:30	Coffee Break and Exhibits	
10:30 - 11:30	Dirk Duddeck, GER	Sterile Packaging Problems – How Clean and Safe is Your Implant? A Fact-Based Comparison of Zirconia and Titanium under SEM Observation
11:30 - 12:30	Sammy Noubissi, USA	Peri-Implant Tissues and Their Response to Implant Materials
12:30 - 1:30	Lunch Break and Exhibits	Lunch is provided to attendees, speakers and exhibitors

Day 1: Friday – Afternoon

Chapter 2: New Trends in Ceramic Implantology

1:30 - 2:20	William Locante, USA	When Titanium Becomes Toxic
2:20 - 3:20	Benjamin Dyches	Essential Legal Concepts and Strategies to Protect Today's Healthcare Professionals
3:20 - 3:50	Coffee Break and Exhibits	
3:50 - 4:35	Luis Alicea, USA	New Paradigm in Patient Rehabilitation
4:35 - 5:35	Amos Yahav, ISL	Minimizing Complications and Resolve Bone Augmentation Challenges with Simple, Minimally Invasive, Predictable Grafting Protocols

Day 1: Friday February 15– Evening Gala Dinner/Reception

SATURDAY FEBRUARY 16

Day 2: Saturday – Morning

Chapter 3: “Concepts of Zirconia Implants”

8:45 - 9:40	Andre Chen, ESP	Zirconia-Based Implantology - From Immediate to Delayed Implant Placement
9:40-10:15	Richard Miron, USA	Next Generation Synthetic Bone Grafts: Introducing Three-Dimensional Induction (3DI) Surface Technology
10:15 - 10:45	Coffee Break and Exhibits	
10:45 - 11:30	Vladimir Kokovic, UAE	Two-piece Design Ceramic Implants –Practical Experience and Current Trends
11:30 - 12:20	Rodrigo Beltrao, BRA	Digital Workflow for Surgical Treatment Planning for Zirconia Implants and Associated Regenerative Procedures
12:30 - 1:30	Lunch Break and Exhibits	Lunch is provided to attendees, speakers and exhibitors

Day 2: Saturday – Afternoon

Chapter 4: “Clinical Aspects of Zirconia Implants”

1:30 - 2:20	Cristine Finco, BRA	Restoring Zirconia Moving From 2D To 3D Treatment Planning
2:15 - 3:05	Andrea Borgonovo, ITA	Current Trends in Ceramic Implantology: A Journey Between Certainties and New Perspectives
3:05 - 3:35	Coffee Break and Exhibits	
3:35 - 4:30	Francisco Casadesus	Targeting Perfection with Dynamic Navigation
4:30 - 5:30	Panel Discussion with Speakers and End of Congress	

Course Descriptions

TWO-PIECE DESIGN CERAMIC IMPLANTS – PRACTICAL EXPERIENCE & CURRENT TRENDS

Vladimir Kokovic

Zirconia ceramics have been proposed as an alternative implant material. The biggest advantage of zirconium to titanium is obviously the biocompatibility and good esthetic results. CERALOG Hexalob two-piece implants are showing good primary stability in the replacement of single and multiply missing teeth in the upper and lower jaw (60.08ISO vs 69.16ISO). Protocol of immediate or early loading can be suggested for implants inserted in posterior part of mandible regarding a high value of primary stability recorded on more than 70 two-piece design zirconium-dioxide implants.

Having the opportunity to insert implants in two levels (bone or tissue level) is giving indication for CERALOG Hexalob implants in high esthetic zone. Less plaque accumulation on surface of zirconium implant shoulder and PEKK abutment is also one of zirconium advantages.

Learning Objectives:

- ▶ Explore the physical and biological properties of zirconium oxide as an implant material;
- ▶ Indications and contraindications for use of CERALOG Hexalob implants as well as patient selection;
- ▶ Success rate over time of CERALOG Hexalob implants.

PERI-IMPLANT HEALTH: DO IMPLANT MATERIALS HAVE AN INFLUENCE?

Sammy Noumbissi

Replacement of teeth has predictably been achieved with dental implants and in that regard metal implants have performed very well over the years. However, every solution comes with its problems and acute or chronic loss of bone around implants is fairly common and has been investigated and attributed for the most part to bacterial or functional factors and in combination. Only recently has the implant material itself been investigated as a potential cause of peri-implant bone loss. Recent studies have proven that the harsh oral environment and the coupling of dissimilar metal alloys when restoring dental implants will lead to corrosion and ion release from titanium and titanium alloy implants. The metal ions release into the peri-implant soft and hard tissues induce an inflammatory response that will cause tissue discoloration and bone loss around implants. This short presentation will present the scientific evidence available that points to the contributory role of material breakdown in the loss of peri-implant bone.

HOW TO MINIMIZE COMPLICATION AND CONFRONT BONE AUGMENTATION CHALLENGES WITH SIMPLE, MINIMALLY INVASIVE, AND PREDICTABLE GRAFTING PROTOCOLS

Amos Yahav

For the last few decades, many more of the same techniques and grafting material have been proposed, modified, enhanced in armamentarium and increased in application time.

The purpose of this presentation is to shed light on a disruptive, innovative paradigm shift bone graft cement concept that can provide you, the clinician, the ability to confront even the most challenging augmentation cases very easily with minimally invasive surgical protocols, minimize patient's discomfort and bring complications percentage to almost zero.

Learning Objectives:

- ▶ How to minimally manipulate the surgical flap
- ▶ How to eliminate the Muscles influence on the stability of the graft
- ▶ Bone cement application techniques and protocols
- ▶ Suturing and flap closure technique
- ▶ How we can predict the outcome during the surgery

AUGMA BONE GRAFT CEMENTS WORKSHOP

Amos Yahav

Augmentation and bone grafting procedures have become an indispensable part of our daily practice over the past decades with the implementation of implants in the maxillofacial and dental field.

Conventional grafting procedures require skillfulness in addition to experience, and even so they still are cumbersome, time consuming, have a prolong healing period and limited amount of vital bone as a result.

The surgical techniques involved with those grafting materials necessitate tension free, primary closure, membrane coverage, additives etc. all of which force us to perform more invasive and intrusive surgical procedures.

Over the past few years a genuine and significant change has taken place allowing for the development of the patented biphasic calcium sulfate Bone Cements.

The exponential dissemination of this new disruptive revolutionary concept will construct a paradigm shift that contributes noticeably to any clinician who receives training and implements this system in their practice will benefit significantly along with their patients as well.

Bone cements are completely different and an opposite concept then conventional grafting. The purpose of this hands-on workshop is to familiarize and train the participant with bone cements manipulation and clinical protocols. We will go over how we can confront any bone augmentation challenges easier, faster, and less invasive with both higher predictability and superior outcomes. You will also learn to keep the flap with tension and partially exposed without any membrane coverage during closure, plus how to predict the outcome at the day of surgery by taking the muscles movement influence on the stability of the graft out of the equation.

This workshop is a must for those who wants to upgrade their augmentation skills and incorporate bone cements in their augmentation arsenal.

RESTORING ZIRCONIA MOVING FROM 2D TO 3D TREATMENT PLANNING

Cristine Finco

The presenter will discuss the benefits to move from a 2D Smile Design planning to a 3D treatment-planning environment and its pitfalls. How can the digital workflow drive restorative and surgical procedures to guarantee natural aesthetic outcome. The author will discuss the decision points and guidelines for implant positioning as well as temporary and final prosthetic restoration. Prosthetic assistance to incorporate all this information into an implant planning software for guided surgery is mandatory to achieve the proper aesthetic outcome. Clinical cases series will be presented to the audience to illustrate the protocol.

WHEN TITANIUM BECOMES TOXIC

William Locante

This lecture describes the advantages of Zirconia over Titanium at a physiologic level and the role of Titanium in material induced peri implantitis. Dr. Locante will be discussing the cause and affect of material induced Peri-implantitis on local and systemic tissues, the formation of metalprotein complex formation and the inflammatory response. He will also be discussing the percentage of the population that may be affected by Peri-implantitis as a general population and why Ceramic implants have become an essential part of our treatment armament.

ZIRCONIA BASED IMPLANTOLOGY - FROM IMMEDIATE TO DELAYED IMPLANT PLACEMENT

Andre Chen

Dental implants made of titanium and titanium alloys are considered the gold standard in implantology, but recently, questions about biocompatibility, high corrosion, and debatable mechanical properties, came to question their clinical behavior.

The increasing demand for metal-free dental implants and the development of refined, tougher, and stronger ceramic core materials in recent years has led to the wider use of new, strong all-ceramics systems based on oxide ceramics as an alternative to titanium in implant dentistry.

The state of digital art essentially aims at simplifying clinical acts with greater predictability and speed, with clear benefit to the patient.

Digital technology has also allowed the integration of once hard-to-master technologies such as zirconia one-piece implants or the use of pre-fabricated customized abutments.

The mechanical part of zirconia implant protocols is undoubtedly important.

However, it is in the area of Biology and Physiology to implant that these zirconia technologies make a difference in relation to conventional ones.

In this context, this conference aims to show in what points the digital technology came to help peri-implant biology, confronting biochemistry, biology, aesthetics and function. This lecture will highlight the pros and cons of zirconia implant therapy as well to show the indications in each clinical situation.

Learning Objectives:

- ▶ To show and debate the state of the art of Zirconia implantology
- ▶ Introduction and review of the 2 Piece ZR Implant therapy
- ▶ To highlight the research on inflammation and immediate zirconia implants
- ▶ To compare outcome on Ti Vs Zr based implantology
- ▶ Historic Perspective for debate the future of zirconia impant therapy

PLATELET RICH FIBRIN IN REGENERATIVE DENTISTRY: FROM BIOLOGICAL BACKGROUND TO CLINICAL APPLICATIONS

Richard Miron

15 years have passed since platelet rich fibrin (PRF) was first utilized in regenerative medicine. Today PRF has spread across many fields of medicine and has gained momentum as a regenerative agent capable of speeding tissue revascularization. More recently, research has demonstrated that shorter and slower centrifugation cycles (known today as 'the low speed centrifugation concept') additionally favors wound healing by incorporating higher populations of white blood cells and progenitor cells within the PRF fibrin matrix. Parallel to these findings, the development of a liquid PRF may further be combined with bone biomaterials favoring particle stability, angiogenesis and tissue integration. This workshop aims to highlight the recent advancements made with respect to the newest formulations of platelet concentrates and systematically presents when, where and why specific platelet concentrates may be utilized to further speed wound healing and tissue regeneration for various clinical indications faced in routine daily dental practice. An overview and practice of phlebotomy techniques will also be presented.

Learning Objectives:

- ▶ Provide the biological background and scientific rationale for why platelet concentrates speed wound healing
- ▶ Introduce the low speed centrifugation concept and the theory behind these PRF formulations
- ▶ Provide clinical indications when, where and why to use PRF (membranes and liquid) in regenerative dentistry
- ▶ Provide key areas into future uses of PRF for everyday dental practice

Course Descriptions

NEXT GENERATION SYNTHETIC BONE GRAFTS: INTRODUCING THREE-DIMENSIONAL INDUCTION (3DI) SURFACE TECHNOLOGY

Richard Miron

Recently our ability to accurately describe biological events that take place during bone regeneration has drastically been improved by advancements made in the fields of cell and molecular biology. The present talk will focus on the recent advancements made to synthetic osteoinductive bone grafts. Pioneering research led by a group of researchers in Netherlands have paved the way for synthetic bone grafts to highly promote bone formation even in ectopic sites without the use of recombinant growth factors (bone formation in muscle and soft tissue). We will cover the novel modifications to their fabrication process and discusses their ability to significantly enhance bone formation in complex sites owing to their novel surface technology (3DI). These next generation synthetic bone grafts present a promising avenue for clinicians wishing to further optimize bone regeneration utilizing synthetic materials in a holistic regenerative approach.

Learning Objectives:

- ▶ Define osteoinductive materials based on FDA standards and not what commercial entities may tell you
- ▶ Explain the different bone-regenerative ability between various classes of bone grafts including autografts, allografts, xenografts and alloplasts
- ▶ Demonstrate key histological findings showing clearly the ability for even synthetic materials to induce ectopic bone formation in muscle
- ▶ Provide rationale for why these materials can induce bone formation even without recombinant human growth factors

CURRENT TRENDS IN CERAMIC IMPLANTOLOGY : A JOURNEY BETWEEN CERTAINITIES AND NEW PERSPECTIVE

Andrea Borgonovo

In this lecture the Speaker presents the evolution of the ceramic implantology . The overview starts showing long term results of clinical and experimental studies on the use of one piece zirconia implant. The AA evaluate survival and success rates, soft tissue health and radiographic marginal bone loss (MBL) of zirconia dental implants placed in the esthetic regions and in the posterior areas of the jaws and in association with multiple or single implant restorations with 10 -12 years follow-up. Zirconia implants showed a good marginal bone preservation that could be correlated to one-piece morphology of zirconia implants and consequently, to the absence of microgap. Moreover, zirconia presents high biocompatibility and low plaque adhesion. The second part of the lecture the AA present the clinical experience of two-piece zirconia implants, recently introduced in the panorama of ceramic implantology, offering new and different clinical solution to complete the possibility of metal free restorations.

SURFACE TOPOGRAPHY AND CELLULAR RESPONSE OF ZIRCONIA IMPLANT MATERIALS

Saurabh Gupta, BDS, MDS

Zirconia is gaining interest as a ceramic biomaterial for dental implant applications due to its biocompatibility and desirable mechanical properties. This presentation briefly reviews different surface modification techniques that have been applied to zirconia such as sandblasting, etching, polishing, laser peening, biofunctionalization, coating, and ultraviolet light treatment. The cellular response of fibroblast, osteoblast-like cell, osteoblast cell, and epithelial cell to the modified surface is discussed in terms of their adhesion, proliferation, and metabolic activity. The presentation would also include discussion on the surface characteristics and surface roughness of different commercially available dental zirconia implants. The potential of surface modification to make zirconia a more successful dental implant material in future is highly dependent on the establishment of successful in vitro and in vivo studies.

Hence, further effort should be made in order to deepen the understanding of tissue response to the implant and the tissue regeneration process. The presentation concludes with future prospects of research and further challenges in developing better zirconia bioceramics and to achieve much more BIC with its counter Ti surfaces.

DIGITAL WORKFLOW FOR SURGICAL TREATMENT PLANNING WITH ZIRCONIA IMPLANTS AND ASSOCIATED REGENERATIVE PROCEDURES

Rodrigo Beltrao

The presenter will discuss how to incorporate the digital workflow for surgical treatment planning and how this information can be useful to predict hard and soft tissue management around Zirconia Implants. Ceramic implants healing properties allows new surgical approaches for soft and hard tissue procedures which in combination with 3D planning provide predictability and minimal invasiveness. Digital workflow can be very useful not only for surgical guides print but also for a full surgical planning based on the restorative desired outcome. The author will present a sequence of clinical cases including hard and soft tissue grafting simultaneously with Zirconia implant placement.

NEW PARADIGM IN PATIENT REHABILITATION

Dr. Luis A. Alicea

The digital world has changed the way we diagnose and be more predictable treatment. From an X-ray sensor, Cone beam Computer Tomography, Intraoral scanners and different softwares to be able to integrate the patient's face, teeth and condyles motion in our treatments.

The osseointegrated Implants in our society are already accepted as the first alternative treatment for replacing a single tooth or replacing a full arch or to stabilize a removable denture or maxillofacial prosthetics. There are different materials such as titanium alloys and zirconia. There are different advantages and disadvantages on materials, forms and uses for restoring a dental implant. When restoring dental implants there are different materials, which risks, or benefits bring these biomechanical materials.

CAN ZIRCONIA BE AN ALTERNATIVE MATERIAL TO TITANIUM IN DENTAL IMPLANTS?

Takahiro Ogawa, DDS, PhD

Zirconia is expected to be an alternative to titanium as a dental implant material. One of the challenges in zirconia materials is a lower ability of osseointegration than titanium-based materials. Our research called Team Surface has been working on designing a zirconia surface based on the novel concept of meso-, micro, and nano-scale hierarchical roughness structuring and have developed a new zirconia surface that outperforms current titanium surfaces. This lecture will discuss the current status of zirconia in term of its osseointegration and introduce the successful endeavor of a novel zirconia surface for significantly improved osseointegration. The audience will learn the following:

- ▶ What are the disadvantages of current zirconia compare to titanium
- ▶ What is the biomimetic-inspired hierarchical structuring to overcome the disadvantage of zirconia
- ▶ The current status and future potential of a novel zirconia surface applicable to commercial dental implants predictable treatment. From an X-ray sensor, Cone beam Computer Tomography, Intraoral scanners and different software's to be able to integrate the patient's face, teeth and condyles motion in our treatments.

STERILE PACKAGED PROBLEMS – HOW CLEAN AND SAFE IS YOUR IMPLANT? A FACT-BASED COMPARISON OF ZIRCONIA AND TITANIUM IMPLANTS IN THE SEM

Dirk Duddeck

Implant surfaces determine the initial phase of the biologic response to the inserted implant and affect its ability to integrate into the surrounding tissue. Unfortunately, the majority of dental practitioners only have limited non-biased information about the surface quality of the implants they use in their daily practice. Periodic quality assessments of more than 250 dental implants by SEM/EDS analysis over a period of more than 10 years revealed alarming results such as significant organic contaminants and metal particles. How can dentists be sure to avoid inferior quality implants? Are there any clinical or legal consequences? And how do Zirconia implants compare to implants made of titanium? The lecture provides answers to these pressing questions.

Learning Objectives:

- ▶ Importance of implant surfaces for a successful osseointegration
- ▶ SEM imaging and elemental analysis on sterile-packed implants
- ▶ Biologic response on foreign bodies and the relation to peri-implantitis
- ▶ Critical evaluation of the current quality of titanium and zirconia implants

LASER AUGMENTATION OF ZIRCONIA IMPLANT PLACEMENT

Judson B. Wall

The incidence of failed and failing titanium implants and root canal treated teeth is rising sharply. The connection between these oral crises and chronic degenerative conditions is coming to light. The Fotona Lightwalker laser has solutions for treating both peri-implantitis and failed root canals. Whether attempting to save failing titanium implants and root canal treated teeth, or cleaning the residue left behind after they are removed laser offers options. Dr. Wall will share what he uses to provide a consistent, reliable vehicle for treatment success. Dr. Wall will review laser basics, treatment indications, recent literature supporting Er:YAG and Nd:YAG laser use, and case studies to highlight the benefits.

IMMEDIATE EXTRACTION AND PLACEMENT SURGERY UTILIZING CERAMIC DENTAL IMPLANTS FOR SUPERIOR AESTHETIC RESULTS

Paul Petrunaro

Dr. Paul Petrunaro takes us into the clinic for an immediate extraction and immediate placement surgery test case evaluation using The Z-SYSTEMS Ceramic Implants One-Piece Tapered Implants. This course is designed for clinicians looking to take their practice to the next level in Ceramic Implants.

Learning Objectives:

- ▶ Provide an atraumatic tooth removal procedure and immediate implant placement with the appropriate torque achieved for successful immediate provisionalization
- ▶ Manage the entire implant/provisional process by minimally invasive (flapless) means
- ▶ Adequately ensure the natural soft tissue emergence profile in the final restoration

TARGETING PERFECTION WITH DYNAMIC NAVIGATION

Francisco Casadesus

Dynamic Navigation in dentistry has opened the door to the future. Today we can observe any of our surgical or dental instruments navigate on the CBCT with an accuracy of up to 0.2 mm. Drills, surgical instruments, electric piezo, osteotomes, low and high-speed contra-angles and any other we want. The benefits are undoubted and innumerable.

Take a CBCT to your patient, perform the virtual prosthetic and surgical planning and start the surgery in a few minutes with the precision and exactitude superior to a static restrictive guide with the advantage of having your free hand.

Targeting perfection with Dynamic Navigation.

Featured Speakers



Dr. Vladimir Kokovic, DDS, MSc, PhD

- Specialist of Oral Surgery & Implantology in Advance Europe Medical Center, Sharjah, UAE;
- Visiting Professor of Oral Surgery & Implantology in Maktum Bin Hamdan Deantall University College, Dubai UAE;
- Academician of European Innovation Academy;
- Director of ITI Study Club Dubai, UAE;
- Key Opinion Leader for AxisGuide, Compute-guided implant system;
- Author of two patents;
- Author & co-author of more than 50 articles.
- 1994, Faculty of Dentistry, University Belgrade, Serbia;
- 1998, Postgraduate program in Oral Surgery, University Belgrade, Serbia;
- 2001 Master of Science in Implant Dentistry, University Belgrade, Serbia;
- 2002-2003, Scholar of International team of implantology, University Zurich, Switzerland;
- 2007 PhD theses in Implant Dentistry, University Belgrade, Serbia;



Sammy Noubissi, DDS, MS

Sammy Noubissi obtained his Doctorate in Dental Surgery from Howard University in Washington DC. He was then selected to attend the prestigious Loma Linda University Graduate Program in Implant Dentistry. There he received three years of formal training in dental implantology which culminated with a certificate in Implant Dentistry and a Master of Science degree in Implant Surgery. He is a researcher, author and has published abstracts and articles on ceramic implants

in peer reviewed dental journals. He lectures nationally and internationally and is the current and founding president of the International Academy of Ceramic Implantology which is an independent association and education provider exclusively focused on metal free and ceramic implantology. Dr. Noubissi has been practicing and educating dentists on metal free implantology since 2009. His practice and the academy are both located in Silver Spring, Maryland USA.



Amos Yahav, DMD

- Graduated from the Carol Davila University of Medicine in Bucharest Romania in 1992
- In 1993, established a private clinic, limited to implants, oral rehabilitation, and aesthetic dentistry in Netanya, Israel
- Highly experienced in the field of implant dentistry and oral rehabilitation
- Serves as a guest and keynote speaker at international conferences and professional workshops worldwide and has spoken on 4 continents

Dr. Yahav is a serial entrepreneur whose practical way of thinking combined with creativity have enabled him to develop a variety of efficient professional tools, accessories, and materials for implants and the surgical field, including the invention of "Biphasic calcium sulfate" (BondBone®, 3D Bond™, and Bond Apatite®. 4 matrix™) He also serves as an advisor for international companies in this very progressive field. Dr. Yahav is currently the CEO of Augma Biomaterials



Cristine Fincio

- 2004 - Bachelor's in Dentistry; Luterana University of Brazil - ULBRA/Canoas, Brazil.
- 2004 - Current: Private practice in Dentistry, Dental Prosthesis and Restorative Dentistry.
- 2004 / 2016 - Implant Dentistry Specialty Course Faculty: SOBRACID/IMED - Porto Alegre/RS, Brazil.
- 2007 - Prosthodontist Residency: Pontificia Universidade Católica do Rio Grande do Sul - PUC, Porto Alegre/RS, Brazil.
- 2014 - Restorative Dentistry Residency: SOBRACID/IMED - Porto Alegre/RS, Brazil.
- 2015 - Master's in Dentistry (Prosthesis): São Leopoldo Mandic/Campinas, SP, Brazil.
- 2016 - Current Implant Dentistry Residency Program Coordinator: SOBRACID/AVANTIS - Porto Alegre/RS, Brazil.
- 2016 - Membership in International Team for Implantology (ITI)
- 2017 - Membership in International Academy of Osseointegration (IAOCI).



William Locante, DDS

Dr. William Locante has been practicing Implant Dentistry for over 30 years. He's a Assistant Clinical Professor in the Dept. of Periodontic Tennessee. Dr. Locante is a Diplomate of The American Board of Oral Implantology, an Honored Fellow of The American Academy of Imp Congress of Oral Implantology. He's an examiner for the American Academy of Implant Dentistry. He also has multiple publications in pe Dentistry. Dr. Locante was also awarded a surgical patent for the non-functional immediate provisional technique. He also sits as a key o worldwide. Dr. Locante has been involved in Bone Cell and Bio Protein Research, helping to identify some of

the healing mechanisms witinvolved in Implant education for over 25 years and is a lecturer nationally and internationally.

Learning Objectives:

- The mechanism by which titanium implants can create material induced peri implantitis and other inflammatory systemic issues due to metallo- protein complexes
- The rationale for the use of Zirconia as a bioimplantable material.



Andre Chen, DMD

- Oral Surgery Specialist - College of Portugal
- Oral Surgery Post-Graduation Course (2008-2011- FMDUL).
- NYU College of Dentistry Implant Dentistry Alumni (2006-2008)
- NYU Continuing Education Oral Rehabilitation Program (2004-2006)
- Clinical Dental Research Program (2012- Washington University - Seattle)
- Master Science In Bone Regeneration (Msc-FMDUL)
- Oral Surgery and Implant Dentistry Faculty FMDUL Since 2004

Research Field Achievements

- Phd research on implant Inflammation Response IL1 and IL1b
- Research on the field of Monolithic Zirconia restoration
- Ongoing Research on Ceramic Implants and related Rehabilitations
- Digital Implant Dentistry Research and Member of the 3shape Academy Iberia
- Co-Coordinator of the Post Graduation Course in Implant Dentistry and Oral Surgery in the Lisbon University



Richard Miron, DDS, BMSC, MSC, PhD

Dr. Richard Miron is currently an Adjunct Visiting Faculty in the department of Periodontology in Bern, Switzerland where he completed his PhD studies since 2009. He has currently published over 150 peer-reviewed articles and lectures internationally on many topics relating to growth factors, bone biomaterials and guided bone regeneration. He has recently been awarded many recent international prizes in dentistry and is widely considered as one of the top contributors to implant

dentistry having won the ITI Andre Schroeder Prize, the IADR Young Investigator of the Year in the field of Implant Dentistry, and the American Academy of Implant Dentistry Young Investigator grant award. He has written 2 textbooks widely distributed in regenerative dentistry including his most recent titled: "Next Generation Biomaterials for Bone and Periodontal Regeneration" and a 2nd in 2017 titled: "Platelet Rich Fibrin in Regenerative Dentistry: From Biological Background to Clinical Indications".



Francisco Casadesus, DDS

Graduated as a dentist in 1995 at the Central University of Venezuela, he continued his studies of specialization in Oral Surgery at the same University while working as Professor in the Department of Oral Surgery. He has maintained an exclusive practice in dental implants and prosthetic restoration adding great experience as Core Member in Global Academy Of Osseointegration, South Korea; ICOI - Fellow;

Master Clinical Trainer in The Dynamic Navigation Society - DNS. NAVIDENT, Canada; among others. He has had the opportunity to participate in the development of different companies of dental implants as well as dynamic navigation and 3D printing equipment and in one of its main areas such as platelet aggregates.

INTERNATIONAL ACADEMY OF CERAMIC IMPLANTOLOGY



Professor Andrea Enrico Borgonovo, DDS

He graduated in Medicine and postgraduated in Oral and Maxillo-facial Surgery with honors at the University of Milan. He started his Academic Career in 2005 as Clinical Assistant Professor at the School of Oral Surgery, at the University of Milan. Recently He obtained the national Abilitation for Associate Professor and was admitted at University of Murcia as Visiting professor of Implantology and at Ludes Foundation University of Malta as Adjunct Professor of Oral Surgery.

Actually He is Vice Chief of Department of Oral Rehabilitation of University of Milan focuses his practice on reconstructive surgery, Orthognathic surgery and oral implantology with specific interest in metal free rehabilitation. He is author of a more than 100 international publications, and speaker at more than 150 national and international conferences. He is author of 2 surgery's books



Dr. Saurabh Gupta BDS, MDS

Dr.Saurabh Gupta is graduated from Manipal University, India and holds Masters Degree in Oral & Maxillofacial Surgery. He is also trained in multiple allied surgical disciplines including Implantology, Laser and Digital dentistry. He is involved in cosmetic dentistry including smile design and aesthetic medicine and has also written a chapter (Smile Design with Dental Implants) for a book "Health and diseases of oral cavity" by JB Publisher, Poland. He has 17 publications, 3 certifications and 2 honors and awards in his name. He has published his papers in various National, International journals and magazines. He has presented guest lectures at national and international level. He is an editorial board member of many national and international journals. He is working as a Biomedical Innovator at

Indian Institute of Science (IISc) and also has a good clinical practice in Bangalore, India. He is an Education Director/ Board Member of International Academy of Ceramic Implantology, which is the first academy in USA dedicated to metal free implantology. He is an active member of ZIRG (Zirconia Implant Research Group), whose objectives are to lead and orient research in metal free implantology and support young and established clinicians in clinical and scientific research. He is also serving the "Bioceramic Division" of "The American Ceramic Society", Ohio, US. Recently, he has published few papers and articles on ceramic/ metal-free implants. At present, he is involved in lot of research studies on ceramic and metal-free Implantology.



Dr. Rodrigo G. Beltrao DDS, PhD

Professional Experience

- > 2001 - Current: Private practice in Dentistry, Oral Surgery, Implants rehabilitation.
- > 2003 - Current: Part time Faculty Sobracid/IMED Implant Specialty Course (Residence);
- > 2009 - 2016: Sobracid/IMED Implant Specialty Course Coordinator;
- > 2014 - Current: Sobracid International Program Director.
- > 2017 - Current: IMED School of Dentistry Coordinator
- > International Speaker and author publications in the fields of Oral Surgery and Implant Dentistry.

Education:

- > 1997 - 2001 - Bachelor's in Dentistry: Federal University of Rio Grande do Sul, UFRGS, Porto Alegre, Brazil
- > 2002 - 2003 - Master's in Dentistry - Pontificia Universidade Catolica RS (PUCRS), Porto Alegre, Brazil - Oral Surgery Division

- > 2002 - 2003 - Specialty in Oral and Maxillofacial Surgery - Pontificia Universidade Catolica RS (PUCRS), Porto Alegre, Brazil - Oral Surgery Division
- > 2004 - 2009 - Doctorate in Dentistry - Pontificia Universidade Catolica RS (PUCRS), Porto Alegre, Brazil - Oral Surgery Division
- > 2013 - 2014 - Advanced Surgical Training - University of California Los Angeles (UCLA) Implant Center, United States

Membership:

- > 2005 - Current - Colegio Brasileiro de Cirurgia e Traumatologia Bucocomaxilofacial
- > 2005 - Current - International Association of Oral and Maxillofacial Surgeons
- > 2015 - Current - American Academy of Osseointegration
- > 2017 - Current - International Academy of Ceramic Implantology



Luis A. Alicea, DMD

Dr. Luis A. Alicea was born and raised in San Juan, Puerto Rico. He pursued studies at the University of Puerto Rico, School of Dentistry. He then completed his Masters Degree, and Prosthodontic residency at that campus, where he focused his training in the placement, and restoration of Dental Implants. He has taught as an Associate Professor in the Research, and Restorative Departments at the University of Puerto Rico, and continues to hold privileges as a professor Ad Honorem in that institution. Dr. Alicea also completed additional training towards certification as an IV Sedation provider, at the University of Alabama, Birmingham. Dr. Alicea is a member of the Peer Review Committee for "The International Journal of Oral & Maxillofacial Implants", and regularly reviews articles prior to publication for this Journal. He is also a member

of the American Dental Association, American Academy of Cosmetic Dentistry, American College of Prosthodontics, Florida Prosthodontic Association, American Academy of Implant Dentistry, Academy of Osseointegration, American Dental Society of Anesthesiology, West Coast District Dental Association, International Academy of Oral Medicine & Toxicology, Holistic Dental Association, Hillsborough County Dental Association, International Academy of Ceramic Implantology, and also participates in the Seattle Study Club. Dr. Alicea has an undeniable passion, and dedication for the dental profession. He has been practicing in the Greater Tampa bay area since 2006. He likes to give back to the community and participates of Dentistry from the Heart events. He loves spending time with his wife, daughter and twin sons.



Takahiro Ogawa, DDS, PhD

Dr. Takahiro Ogawa is widely recognized as a pioneer in creation of novel titanium and zirconia surfaces, implant biologic research, and photoenergy-mediated activation of implant materials, known as UV-photo-activation. Dr. Ogawa is a Professor in Division of Advanced Prosthodontics and Weintraub Center for Reconstructive Biotechnology at UCLA School of Dentistry and a leader of Team Surface. He has published more than 170 papers in peer-reviewed scientific journals

with a total impact factor of over 450. Dr Ogawa is a recipient of IADR/AADR William J. Gies Award, American College of Prosthodontists (ACP) Clinician/Researcher Award, International Congress of Oral Implantologists (ICOI) Ralph V. McKinney, Jr Award, and Academy of Osseointegration (AO) William R. Laney Award, and IADR Distinguished Scientist Award. He is a former president of IADR Prosthodontic Group.



Dirk Duddeck, DDS

- > 1985 Undergraduate degree in Biology
- > 1992 Certification as Dentist
- > 1992-2015 Dep. for Craniomaxillofacial and Plastic Surgery University Heidelberg; Interdisciplinary Dep. for Oral Surgery and Implantology, Dep. for Craniomaxillofacial and Plastic Surgery University of Cologne, Germany
- > Since 2013 Member of the BAIRD Implant Council - The British Academy of Implant & Restorative Dentistry

- > Since 2014 Founder and managing director of mmri.berlin, the independent Medical Materials Research Institute based in Berlin (www.mmri.berlin), specialized in implant material analyses.
- > Since 2016 Guest researcher at the Charité University Medicine Berlin / Campus Benjamin Franklin; Department of Prosthodontics
- > Since 2016 Managing director of the non-profit organization CleanImplant Foundation



Judson B. Wall, DDS

Dr. Judson B. Wall has been helping patients to feel better for over fifteen years. He is a graduate of the University of Utah and received his Doctor of Dental Surgery from the West Virginia University School of Dentistry. He has an impressive list of accomplishments and credentials, including Accreditation by the International Academy of Oral Medicine and Toxicology, a Fellowship with the American Academy

of Craniofacial Pain (July 2010), a Fellowship with the Academy of General Dentistry (June 2007) and an Associate Fellowship with the World Clinical Laser Institute (July 2005). He is internationally sought after as a lecturer, teaching and training about metal-free dentistry, zirconia implants, TMJ dysfunction and sleep appliance therapy.



Paul Petrunaro, DDS

Dr. Petrunaro graduated from Loyola University Dental School in 1986, and completed an independent study of Periodontics at the Welsh National Dental School in Wales, UK. He completed his residency in Periodontics and has a specialty certificate in addition to a Master's of Science degree in Periodontics from Northwestern University Dental School. He is the former Coordinator of Implantology, Graduate Department of Periodontics, Northwestern University Dental School. Dr. Petrunaro has been in private practice of Periodontics and Implantology since 1988, and holds a license in Illinois and Washington State. He is a fellow of the International & American College of Dentists, and a Diplomate of the International Congress of Oral Implantologists. Dr. Petrunaro is recognized around the world for his diversified seminars and lectures

on advanced periodontal, prosthetic and implant interrelationships, bone re-generation and esthetic tissue formation, the All-on-4® Treatment Concept "surgical protocol", Zygomatic "rescue" implants, the treatment of failing implants, and the reconstruction of previously failed implant cases, immediate restoration of dental implants and the use of platelet rich plasma in bone grafting throughout the US, Europe, Canada, Australia, Asia, South America, and Israel. He is quickly becoming considered an expert in the use of one-piece Zirconia implants for single and multiple tooth replacement in the esthetic zone. In addition, he has authored numerous articles covering subjects such as cosmetic bone grafting and esthetic implant procedures. Dr. Petrunaro continuously contributes to many new innovations in multiple disciplines of surgical dentistry.

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