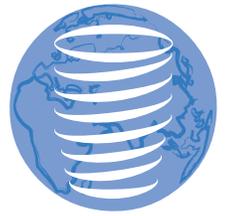


IAOC

INTERNATIONAL ACADEMY OF
CERAMIC IMPLANTOLOGY



10TH IAOCI WORLD CONGRESS

CERAMIC IMPLANTOLOGY:
PAST, PRESENT AND FUTURE

August 19-21, 2021
Paris Las Vegas
Resort & Casino
Las Vegas, Nevada

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Dear Friends, Colleagues and Members:

I would like first, to thank you for your continued support of the IAOCI even during this very unique and difficult year we've just completed. We are looking forward to 2021 and we all hope that it will be a better year. The IAOCI, from its inception 10 years ago, has been the worldwide leader in ceramic Implantology and we are proud to say that we continue to forge forward as we march toward our tenth anniversary congress. The academy started with three members including it's founder and over the years pretty much single handedly brought metal free implantology to the forefront and contributed greatly to make it a relevant and fast growing alternative in implant dentistry.

In 2020 despite the challenges in lieu of our quarterly events, we organized and hosted the first ever virtual ceramic implant event which was very successful and well attended by members and followers across four continents and over 20 countries.

Our 10th Anniversary Congress will take place in Las Vegas, NV August 19-21, 2021. This is a slight alteration from our original date due to the Covid-19 pandemic. We feel this will offer a better chance for a fully attended event. As you know our membership and attendees come from all continents and for the past nine years we have showcased the world's foremost experts in ceramic implantology. Today the IAOCI World Congress is looked upon as the hallmark event in the world for any dentist seeking to learn about or get more information and training on ceramic implants.

The theme for this milestone event is *"Ceramic Implantology: Past, Present and Future"* and as we have in the past we will have programs that will promote and showcase innovative and forward-thinking ideas through workshops, lectures and symposia that enhance the understanding of and the rationale for ceramic implants.

As many of you are aware the majority of the patient demographic who are seeking ceramic implants tend to be very health and wellness oriented. Therefore they expect their dentist to be familiar with forward thinking and minimally invasive treatment modalities, but also understand and implement biological and holistic concepts in their practice of medicine and dentistry. In response to that, we will have for the first time a half day workshop focused on helping non-biological/holistic dentists understand better how to treat this rapidly growing demographic and be competent and confident at presentation and planning ceramic implants. *"Holistic Dentistry for the Non-holistic Dentist."*

I, and all the academy officers, look forward to being able to reconvene and reconnect in person in Las Vegas, August 19-21, 2021 at the Paris Hotel.

Warmest regards,

Dr. Sammy Noubissi
President



Paris Las Vegas, 3655 Las Vegas Blvd. South, Las Vegas, NV 89109
Reserve your room online using this link:

<https://book.passkey.com/go/SPIAO1>

COURSE DESCRIPTIONS



Susan Wingrove, BS, RDH

Long-Term Prevention of Peri-Implant Complications: Ceramic and Titanium Implants

Course Description:

To prevent peri-implant complications, professional in-office assessment, maintenance, and home-care recommendations are vital. For long-term success clinicians need research-based protocols to detect early signs of implant complications, diagnose these complications to provide early intervention and be able to perform professional in-office maintenance. This course will follow the global healthy implant initiative for ceramic and titanium implants based on Susan's Clinical White Paper: Long-term prevention of peri-implant complications and textbook: Peri-Implant Therapy for the Dental Hygienist: Clinical Guide to Maintenance and Disease Complications.

Learning Objectives:

- Learn the current research for biofilm-focused protocols, tools, and treatments for long-term prevention of peri-implant disease.
- Detect; put into practice biofilm identification and a five-step protocol to assess and monitor dental implants.
- Diagnose; early intervention guidelines based on peri-implant soft and hard deficiencies
- Treatment; biofilm-focused maintenance for all forms of implant-borne restorations based on Scanning Electron Microscope testing on hand and ultrasonic instruments to use to debride titanium and ceramic implants
- Provide safe home-care recommendations for all forms of dental implants, their restorations/prostheses.

Biography:

Susan Wingrove is an International speaker, author, researcher, instrument designer, and 2016 Sunstar RDH Award of Distinction recipient. Susan is member of the American Dental Hygienists' Association, International Federation of Dental Hygienists, Oral-B Global Implant Board (P & G), and Western Society of Periodontology. Published author for multiple journal articles, Scientific Panel for ACP Clinical Practice Guidelines, as well as Implant Maintenance Textbook: Peri-Implant Therapy for the Dental Hygienist: Clinical Guide to Maintenance and Disease Complications. Resides in Missoula MT. Contact: swinrdh@gmail.com / wingrovedynamics.com



Rebekka Hueber, med. dent.

Ceramic Implant Guided Augmentation Protocol

Course Description:

Always a solution at hand – definite instructions for bone augmentation in conjunction with ceramic implants for every indication - this is what the Guided Augmentation Protocol offers down to the last detail. This lecture will provide you with insights into the BISS - Bone Implant Stabilization System, indications for umbrella screws, special procedures for external sinus lifts, the use of disc abutments, and different solutions incorporating platelet-rich-fibrin, membranes and bone graft substitutes in biological oral surgery.

Learning Objectives:

- Indication based biological augmentation techniques in conjunction with ceramic implants, umbrella screws and disc abutments
- Different augmentation techniques performing an external sinus lift
- The perfect combination of platelet-rich-fibrin, collagen membranes and bone graft substitutes according to the GUIDED AUGMENTATION PROTOCOL.

Biography:

Dr. Rebekka Hueber is an accredited specialist in biological dentistry and ceramic implantology at the Swiss Biohealth Clinic in Switzerland. She graduated from the dental program at the prestigious Ludwig-Maximilians-University, in Munich, Germany earning her specialization in dental oral surgery. Dr. Hueber is a well respected International lecturer, key opinion leader, and educator in the application of ceramic implants and biological dentistry and is an author of several articles and publications in recognized journals.



Luis Bessa, DDS

Full Digital Workflow with ZR Implants: Where We Are and Where Do We Go

Course Description:

Full digital workflow is one of the cutting edge topics in implant dentistry. With the increased utilization of the zirconia implants it is demanding that new protocols appear. From documentation tools to design software and cam hardware, we have a wide range of options that should be criteria chosen. Although biology still is the foundation our treatments it should walk side by side with the technology in order to get faster, less invasive and more predictable treatment outcomes. During this lecture we will review the advantages of work with digital patient, and how we manage complex full mouth reconstructions integrating digital and aesthetics using ZR implants and bio-compatible restoration materials.

Learning Objectives:

- Understanding different software and how to get in the digital environment
- Guided surgery and prosthodontics with ceramic mono bloc implants
- Advantages of full digital workflow in complex cases

Biography:

Dr Luis Bessa has been working in his own practice in Porto, NORTH CLINIC, Portugal. As an Oral and MAX FAC surgeon and have a strong focus on minimal invasive ridge reconstruction with autologous tissues as well as high end aesthetic dentistry. He is strongly focused on a biological approach and in the use of Zirconium implants.



Holger Scholz, med. dent.

16 Years of All-Ceramic Zirconia-Based Implants

A retrospective evaluation of the data from more than 5,000 ceramic implants inserted from 2006 to 2020 a look into the future with a new implant design

Course Description:

In Germany from 1975 the so-called "Tübinger Implantat" made of high-purity sintered aluminum oxide was used. However, this ceramic did not have sufficient breaking and bending strength and long-term stability, so that the implants were withdrawn from the market. The newer generation of ceramic implants available from various companies from 2004 initially consisted of TZP (tetragonal zirconia polycrystal) or its variants and is still used today. Since 2007, another generation of ceramic implants with improved material properties made of AZT (aluminum toughened zirconia) has also been available. In the Dental Clinic Constance, we only inserted ceramic implants from 2007 and now have the experience of more than 15 years and more than 5,000 ceramic implants. Based on this experience, the lecture gives a well-founded assessment of the possible indications for ceramic implants and the expected success rates. The lecture clarifies the currently established indications and gives an insight into the possibilities of metal-free implantology within the framework of biological dentistry. The experiences range from single tooth implants to complex implantological solutions and show the paradigm shift in implantology through the possibilities of biological dentistry.

Learning Objectives:

- The focus of implantology has evolved from a mechanistic to a biological thinking due to the possibilities that ceramics offer.
- Biological and digital dentistry are the appropriate answer to increasingly complex challenges in the field of tension between health and economic efficiency.
- The design of ceramic implants has changed based on 15 years of experience.

Biography:

Holger Scholz is one of the most experienced dentists worldwide in the fields of metal-free implantology and biological dentistry. Head and owner of the Dental Clinic Constance, Germany, dental consultant at Swiss Mountain Clinic in Castaneda, Switzerland. Co-developer of ceramic implants, author and speaker for metal-free implantology and biological dentistry.



Sofia Karapatakis, DDS

Peri-Implantitis and Zirconia Implants: Results After 5 Years of Clinical Performance

Course Description:

Peri-implantitis is one of the most common complications with titanium and titanium alloy implants. The etiological factors of peri-implantitis are multiple and are now believed to be also related to the implant materials. This is one of the main reasons

why many dentists have had to consider or turn to alternative materials for implantation such as zirconia. However, is zirconia completely immune to this complication? Different reasons that are referred to as causative factors for the occurrence of peri-implantitis in titanium implants are presented in comparison to zirconia implants. Findings and observations from clinical cases observed in two implant centers are presented and all the cases included in this presentation have been under at least 5 years of clinical performance in the oral environment and in a variety of clinical situations. All implants evaluated are a two-piece zirconia implant by Patent Ceramic Implants system which were restored with customizable and cementable glass fiber abutments.

Learning Objectives:

- Are zirconia implants free of Periimplantitis?
- Causative factors of Peri-implantitis in titanium implants in comparison to zirconia implants
- Clinical performance of zirconia implants after at least 5 years of function

Biography:

Dr. Sofia Karapatakis, DDS graduated from the Athens School of Dentistry in 1989. Specialization in Periodontology, Implantology at the Institute for Post-graduate Dental Education Jonkoping, Sweden (4/23/1990-8/31/1993). In addition to the main specializations, she specialized in small Gnatheosurgery, Radiology, Physiology of the Crotophagathic Structure, Implant Prosthetics, Peri-prosthetics and General Pathology. Master of Science, at Gothenburg Sweden in 2001, entitled "Healing following guide tissue regeneration after surgical removal of impacted teeth". Specialization in prosthetic restoration of facial implants in 2001 at Gothenburg, Sweden. Training at PRGF (plasma Rich Growth Factors) in 2011 at Vitoria Spain. Education in Aesthetics in 2012 in Munich, Germany. Training in zirconia implants in 2013 in Munich, Germany. Founding member of Leading Ladies in Dental in 2017. Ambassador for Greece of the non-profit organization for clean implants Cleanimplant Foundation. Speaker on the following: Periimplantitis, Dental metal free, Intolerance – immune system involvement, Personalized patient approach, Zirconia implants, Metal-free materials.



Daniel Gustavo Olmedo, DMD, PhD

Biotribocorrosion of Titanium Dental Implants: Local and Systemic Tissue Effects

Course Description:

Humans are exposed to different types of particles that can enter the body mainly by inhalation, ingestion or dermal absorption. In view of the widespread use of biomaterials in medicine, another potential source of body contamination with micro (MPs, >100nm) and/or nanoparticles (NPs, 1-100nm) is the surface of metallic biomedical devices. Titanium is widely used in the manufacture of dental and orthopedic implants due to its excellent biocompatibility. It is a highly reactive metal, and on exposure to air or fluids it rapidly develops a layer of titanium dioxide (TiO₂), which passivates the metal. However, as a result of electrochemical corrosion processes, frictional wear, or a synergistic combination of both, ions/particles may be released from metal implants into the bioenvironment. The combined effect of mechanical, biochemical, and electrochemical factors is known as tribocorrosion. When this process occurs in a biological environment, it is referred to as biotribocorrosion. As a consequence of this phenomenon, the surface of a biomedical implant can be a potential source of release not only of MPs but also of NPs, into the biological milieu. Because NPs have a greater surface to volume ratio, they are biologically more reactive and potentially more harmful to human health. The chemically active metal ions/particles released from an implant surface, may bind to the surrounding tissues, but may also bind to proteins and be disseminated to distant organs in the vascular and lymphatic systems. Research in human samples conducted by our group has shown the presence of titanium particles in peri-implant tissue around failed human dental implants, in oral mucosa in contact with implant cover screws, in cells exfoliated from peri-implant oral mucosa around titanium dental implants, in reactive lesions in the peri-implant mucosa, and in infrequent pathologies in peri-implant tissues associated with titanium dental implants. In addition, our studies in experimental animal models demonstrated deposition of titanium MPs and NPs in target organs and the presence of a tissue response to these particle deposits. This presentation will address the local and systemic effects of biotribocorrosion of titanium, as shown by our studies in experimental animal and human tissues.

Learning Objectives:

- To know the general concepts pertaining to corrosion and tribocorrosion, and explain the risk of these processes occurring on the surface of a biomedical metallic implant, mainly titanium, placed in a biological milieu.
- To recognize the local and systemic effects of biotribocorrosion of titanium, mainly as shown by studies in experimental animals and human tissues.
- To evaluate the possible clinical implications of biotribocorrosion of titanium dental implants.

Biography:

Daniel Gustavo OLMEDO. DMD Doctor of Dental Medicine, National University of Córdoba, Argentina (1992); PhD in Dentistry, National University of Córdoba (2001); Specialist in Oral Pathology, University of Buenos Aires, Argentina (2009); Head Professor of the Oral Pathology Department, School of Dentistry, University of Buenos Aires (2017-); Researcher, Career of Scientific and Technological Researcher, National Council of Scientific and Technological Research, Argentina (2005-). Full Academician, National Academy of Dentistry, Argentina (2018-). Director of research grants from national funding agencies. Author of several full scientific papers published in international peer-reviewed indexed journals. Reviewer for a number of international journals.



Miguel Stanley, DDS

Slow Dentistry - The Concept and How To Implement in Your Clinic

Course Description:

What separates a great dentist from a mediocre one? Why are some dentists more expensive than others? How can I find a good dentist for my needs? These questions and so many like them are raised daily by people around the world who are trying to get the best value for money and best quality of care from a dentist. With over 20 years of experience in advanced implant dentistry and cosmetic oral rehabilitation, more than ever he recognizes the vital importance of going slow at critical moments in time and that's what "Slow Dentistry" philosophy is all about. Learn how to establish basic staples of high-quality dentistry that are focused on ensuring that the patient has a safe, pain-free consultation. What is the concept of Slow Dentistry? How can it get you to another level? The formula for success in the future: Slow Dentistry plus digital dentistry. The application of the 4 basic cornerstones of Slow Dentistry can truly lead to a stress free environment and is a practice builder, not to mention the benefits on mental health in the workplace.

Learning Objectives:

- How to establish basic staples of high-quality dentistry that are focused on ensuring that the patient has a safe, pain-free consultation
- Learning the Slow Dentistry® concept
- Application of the 4 basic cornerstones of Slow Dentistry - Make your clinic a Slow Dentistry® clinic

Biography:

Dr. Miguel Stanley is the founder and clinical director of the White Clinic in Lisbon, Portugal. With a team of over 40 people, and only 7 dental units, the clinic is one of the most advanced digital clinics in the world, with a strong focus on implant dentistry and occlusion driven high quality full arch restorative dentistry. Dr. Stanley has given over 200 keynote lectures on implant dentistry, cosmetic dentistry, prosthodontics and digital dentistry in more than 50 countries. He is an adjunct professor at Penn Dental Medicine, a member of the IOMT, Vice president of the Digital Dentistry Society with published work in multiple fields. He is also the only dentist to ever do a documentary on dentistry for National Geographic. Dr. Stanley's vision for the future of our profession is strongly founded on ethics and science. He is the founder of the Slow Dentistry® movement



Prof. Jérôme Chevalier, FRA

Ceria-Stabilized Zirconia: A New Alternative in Dental Implantology

Course Description:

40 years ago, Garvie and his Australian co-workers reported that the stress induced transformation of metastable tetragonal zirconia grains to the monoclinic symmetry could give rise to a powerful toughening mechanism. Their results even led them to consider zirconia systems as analogues of certain steels in terms of mechanical performances, while exhibiting a much superior corrosion resistance. This seminal paper generated extraordinary excitement in the ceramic community and led to a large variety of new applications. Transformation toughening is widely used in current zirconia materials, mostly in the form of yttria-stabilized systems (Y-TZP) and results in an increase in strength and toughness when compared to non-transformable ceramics such as alumina. However, it is evident that zirconia ceramics still fail at low strains with a much larger scatter in the strength values than metals and require statistical approaches to failure. Here we describe in details the mechanical behavior laws of newly developed ceria-doped zirconia composites exhibiting a high degree of stress-induced transformation. They display, i) significant amount of transformation-induced plasticity without damage, ii) very high flaw tolerance and iii) almost no dispersion in strength data. They potentially open new application avenues in situations where the advantages of ceramics were dampened by their brittle failure behavior. In particular, the consequences of such behavior for dental implants and additive-manufactured structures are highlighted. The biocompatibility and bone integration of this material is also discussed.

COURSE DESCRIPTIONS

Biography:

Born in 1970, Jérôme Chevalier is currently full Professor at the National Institute of Applied Sciences, in Lyon (INSA-Lyon), France. After receiving his PhD in 1996 (Mechanical properties of biomedical grade zirconia), Jérôme Chevalier first became Ceramic Engineer in Saint-Gobain Group. In 1997, he joined the National Institute of Applied Sciences, in Villeurbanne and became full Professor in 2004. Jérôme Chevalier is mainly recognized for his work on ceramics for healthcare applications, especially on zirconia as a biomaterial and on the development of innovative glass-ceramics and calcium phosphate ceramics for bone substitute applications. His research interests are also related to the mechanical behaviour laws of ceramics under different forms. He has been involved in a large number of European projects and has coordinated recently the LONGLIFE project, dealing with ceramic implants. He shows a strong involvement in partnerships with European companies in the field of medical devices. He has published more than 200 papers, holds 10 patents and has been cited more than 10,000 times. Jérôme Chevalier has been member of the 'Institut Universitaire de France' (2010-2015) and recently awarded by the French CNRS with the 'Innovation Medal' (2015). Jérôme Chevalier is currently one of the editors of the Journal of the European Ceramic Society. He is fellow of the European Ceramic Society (2017) and member of the World Academy of Ceramics (2018).



Prof. Shahram Ghanaati, MD, DMD, PhD, FEBOMFS

LECTURE: Do We Need A Biologic Contribution to Bone Substitute Materials and Collagen Membranes in Dentistry?

Course Description:

The regeneration of the soft and bone tissue within the oral cavity as a pre-implantological step is a complex process. In the last three decades blood concentrates have been used, in order to promote the tissue regeneration within oral cavity. Up to now, however, there is no systematic approach, how to apply blood concentrates for different applications in dental surgery. In this lecture, the development of PRF (Platelet-Rich-Fibrin) as an autologous blood concentrate and the LSCC (Low speed centrifugation concept) will be introduced. The results of multiple clinical studies for different indications will be shown, in order to highlight the potential of PRF for improving conditions during dental surgery, especially in open healing conditions.

HANDS-ON: Is the Regeneration of the Soft and Bone Tissue within the Oral Cavity as a Pre-Implantological Step a Complex Process?

Course Description:

The regeneration of the oral cavity as pre implantological procedure is a very complex process. The performance of a correct surgical technique represents simply an aspect of a diversified cascade. To understand the multidimensionality of wound healing we will explicate the below aspects in a daily course and discuss them in an interactive style of communication.

- clinical reality in relation to wound healing disorder and soft tissue regeneration
- attention of the atrophy for a successful regeneration
- Guided Bone Bone Tissue Regeneration: regeneration or augmentation?
- Guided Tissue Regeneration: barrier membrane or functional barrier membrane?
- Understanding of the cellular tissue's response of biomaterials
- negative impact of the tissue healing due to foreign body reactions
- indications of dentistry
- necessity of the biologisation of biomaterials for a successful surgical based regeneration
- blood concentrate: Differences and indications
- Development of PRF research and the LSCC concept
- blood sample for PRF production
- PRF in a clinical indication
- Socket preservation or alveoli healing?
- sinus augmentation
- complex three-dimensional augmentation
- soft tissue regeneration
- treatment of recession: autologous vs. biologic membrane
- overview of surgical techniques in the plastique and aesthetic periodontal therapy
- concepts of biological periimplantitis treatment

Learning Objectives:

- Understanding cellular tissue reaction to biomaterials for successful bone and soft tissue regeneration
- Blood concentrates and their potential for enhancing wound healing, LSCC
- Indication based dentistry and open healing

Biography:

Prof. Shahram Ghanaati has a triple doctorate in medicine, dentistry and science (MD, DMD, PhD) from the German universities Johannes Gutenberg University, Mainz and Johann Wolfgang Goethe University, Frankfurt. From 2007 to 2013, he successfully completed his residency at the Clinic of Oral, Cranio-Maxillofacial and Plastic Surgery, Johann Wolfgang Goethe University, Frankfurt. In 2013, he achieved the degree of Specialist in Oral and Maxillofacial Surgery. Today, he leads the Head and Neck Oncology section at the University Cancer Center, Johann Wolfgang Goethe University, Frankfurt and is an Associate Professor at the Clinic of Oral, Cranio-Maxillofacial and Plastic Surgery and a faculty member at the Johann Wolfgang Goethe University, Frankfurt. In 2016, he achieved the degree of Specialist in Oral and Maxillofacial Surgery with additional designation of plastic operations and was appointed as the Chief Senior Physician. In 2016 he was appointed as Deputy Director of the Clinic. Prof. Ghanaati has performed a series of translational studies (preclinical and clinical) with special focus on biomaterial-related cellular reaction and regeneration capacity. Since 2005, he has extensively studied the inflammatory pattern and regeneration capacity of biomaterials with respect to different physicochemical properties. Thereby, he performed research and accompanied the development of over 10 biomaterials from bench to the clinic. He developed a biomaterial-based technique for extraoral skin regeneration which received 510 (k) in USA in 2017. Presently, he is a research consultant for the world's leading manufacturer of biomaterials. In 2009 he founded the FORM-Lab (Frankfurt Orofacial Regenerative Medicine, www.form-frankfurt.de), the research laboratory of the Clinic of Oral, Cranio-Maxillofacial and Plastic Surgery, Johann Wolfgang Goethe University Frankfurt, and leads it ever since. In FORM, he manages a working group of scientists and clinicians who perform basic science and clinical studies focusing on understanding the biomaterial-based regeneration process and aspects of vascularization in management of soft and bone tissue regeneration. In 2010, he started to develop advanced preparation protocols of platelet rich fibrin (PRF) together with Dr. Joseph Choukroun, the founder of PRF. In 2016, they established the so-called LSCC (Low Speed (Centrifugation) Concept) for PRF-derived blood concentrates to gain a highly bioactive autologous drug delivery system. Prof. Ghanaati preformed more than 80 lectures at national and international congresses and gave more than 40 courses and workshops on GTR & GBR in Implantology as well as on regenerative concepts and blood concentrates.



Prof. Jaafar Mouhyi, DDS, PhD

The Peri-Implantitis : What About Surface Contamination, Bad Manufacturing and Corrosion Risks

Course Description:

Various methods have been applied for the treatment of peri-implantitis lesions. It was reported that the procedures used were effective in reducing the inflammatory lesion but re-osseointegration to the once contaminated implant surface was difficult or impossible to achieve. The aim of this lecture is to give some explanations to osseointegration phenomenon in general and to evaluate the critical level and kind of organic and inorganic contaminations taking part of the Periimplantitis reaction, corrosion process and others chemical changes on supposed clean implant surfaces. All those complicated parameters will be explained by mean documents based on scanning electron microscopy (SEM), MEB-EDAX, X-ray induced photoelectron spectroscopy (XPS), Atomic Force Microscopy (AFM) and Proton Induced X-ray photoelectron spectroscopy (PIXE). These data

will explain mysterious clinical situations and gave us some precious informations about the peri-implantitis high complexity when it comes to surface physico-chemical aspects either Titanium or Ceramic implant

Learning Objectives:

- How to define and classify periimplantitis lesions.
- Understand osseointegration phenomenon with regards to physico-chemical aspects of Titanium oxide surfaces
- Understand major changes of surface characteristics on contaminated Titanium in early and late implants failures.
- Description of an original and well documented protocol of peri-implantitis treatment developed and published by our research team

Biography:

Prof. Jaafar MOUHYI DDS, PhD, DDS, Free University of Brussels (ULB) 1990 & Master, Periodontology 1994; PhD, ULB (International Research collaboration, Göteborg University) 1999; Director, Casablanca Oral Rehabilitation Training & Education Center, Morocco; Head of the Biomaterials Research department, International University of Agadir (Universiapolis), Agadir Morocco. Faculty Member, Dental XP Implant Externship Program, New York University, NY; Counsellor, International Board member, President Elect of the Digital Dentistry Society DDS, Scientific Board member. Clean Implant Foundation, Germany; International Board Member of SENAME (South Europ. North African Middle East. Implantology and Modern dentistry Assn.) Editorial Board member, Reviewer, Clinical Implant Dentistry & Related Research. & African Dental Journal.



Sanda Moldovan, MS, DDS

Ceramic Dental Implants in The Esthetic Zone

Course Description:

Many patients require replacement of one or several anterior teeth. This course will present the all-ceramic implant option for single or several teeth in the aesthetic zone, particularly for those with a thin periodontal biotype. Papilla preservation via immediate temporization is imperative for the final Esthetic outcome.

Learning Objectives:

- Discuss principles of immediate tooth replacement using ceramic dental implants.
- Present Immediate temporization protocols for the Zeramex implant system
- Evaluate the use of biologics such as platelet rich fibrin and connective tissue grafting in maintaining the gingival profile.

Biography:

Dr. Sanda Moldovan Sanda Moldovan, MS, DDS is an internationally recognized speaker, award-winning periodontist, author, and television personality and consultant on oral health, periodontics, nutrition, and anti-aging. She has been speaking publicly since she was a teenager in Ohio, after emigrating from the Transylvania region of Romania. "I had to work very hard to get where I am today – in the privileged position of being able to help others transform their health and lives, she says. "I am proud to be living proof of how persistence, perseverance, and patience can help anyone achieve their dreams." Believing health issues that manifest in the mouth are key indicators for one's overall health, she is a frequent speaker on periodontics and nutrition for Nobel Biocare – the world's leading implant company. She lectures on dental implants and nutrition for a healthy mouth at the UCLA School of Dentistry and is a faculty member of Global Institute for Dental Education (GIDE). An official spokesperson for Waterpik, Dr. Moldovan is the go-to oral health expert for the Emmy-award winning syndicated daytime television series "THE DOCTORS." She is a widely sought after oral health expert by network television shows such as NBC and CBS. She is an editor for the Inside Dentistry magazine, and is a regular contributor to The Huffington Post. She is a graduate of Ohio State University School of Dentistry. From there she went on to the University of California Los Angeles, for post-graduate periodontics training. She earned a Master of Science in Oral Biology from UCLA. Additionally, she is a trained and certified nutritionist as well as an American Academy of Periodontology (AAP) diplomate. Her professional affiliations include active membership in the Academy of Anti-Aging medicine, American College of Nutrition, and Academy of Laser Dentistry. She stays on top of the latest research and technology in her fields of expertise, particularly laser and minimally invasive techniques in dental implant surgery, periodontal plastic surgery, and nutritional support. Her book, "Heal Up!: Seven Ways To Faster Healing And Optimum Health" is being published on September, 20th, 2018.



France Lambert, Periodontist, DDS, MS, PhD

Mucointegration: Strategies for Peri-Implant Soft Tissues Integration

Course Description:

The mucointegration is of major importance to ensure long term success of implant and to prevent bacterial progression from the oral cavity to the implant surface. A major criterion influencing this biological interface is the type, quality and thickness of the peri-implant mucosa. How to preserve pre-existing keratinized and fibrous mucosa and how to thicken, increase or create a favorable soft tissue environment before or at implant placement will be illustrated. Another important parameter is the design and material composition of the trans-mucosal components, knowing that a cell adhesion is not possible on any material, and that the design of the abutment can create a stabilizing ring of connective tissue to protect underlying structures.

Learning Objectives:

- The objective of this lecture is to identify the key aspects affecting the maintenance of the soft tissue barrier.
- Additionally, a soft tissue friendly clinical protocol respecting the soft tissue integration will be proposed.

Biography:

France Lambert graduated with in dentistry in 2002 and also completed a post-graduate program in Periodontology at the University of Liège. In 2005, she received an ITI scholarship to expand her education in implantology at Harvard School of Dental Medicine. She is Professor in periodontology, oral surgery and Dental Biomaterials (www.d-bru.ulg.ac.be) and Head of Department of Periodontology and Oral Surgery and oral implantology (www.parochu.be) at University of Liège, Belgium. Her clinical activity is dedicated to periodontology and implantology. The focus of her research is 1° bone regeneration and biomaterials, 2° soft tissue integration around teeth and implants and 3° innovative and less invasive implant protocols. She is lecturing internationally and is the author of several international publications. France Lambert is also the past-President of the Belgian Society of Periodontology



John B. Roberson, DMD, DNDDBA, FACD, FICD, FICOI

Pharma DMD+MEP - Pharmacology with Medical Emergency Preparedness

Course Description:

Medical Emergencies happen in dental offices. They are not rare. Dentists and their staff must be ready, there can be no exception. The first 10 minutes are critical in a life-threatening emergency. This is an energetic, interactive lecture devoted to having dentists and their team ready on Monday. Every dentist and their team need to experience The L.I.F.E. Program.

Learning Objectives:

- What to do in the first 10 minutes of a medical emergency
- Recognize adverse reactions to drugs and implement appropriate interventions for those causing a medical emergency
- Understand and know the CORE 8 DRUGS and DOME 16 your office needs for medical emergencies
- Legal Ramifications of adverse events in dental offices
- Case Presentations involving various medical emergencies that occurred in dental offices

Biography:

John B. Roberson, D.M.D. is a native of Hattiesburg, MS. He obtained his dental doctorate at the University of Mississippi School of Dentistry. Dr. Roberson performed his residency in Oral & Maxillofacial surgery at the University of Cincinnati Medical Center. His training included dentoalveolar surgery, anesthesia, implants, corrective jaw surgery, facial trauma, reconstructive surgery, TMJ, oral medicine & pathology, cleft lip & palate surgery, facial cosmetic surgery and skin rejuvenation. He is a member of the American College of Oral & Maxillofacial Surgeons, International Congress of Oral Implantologists, and several other Dental Associations. He lectures and authors on the subject of medical emergency preparedness, sedation emergency preparedness and emergency drugs. He has authored a book, published over 100 articles on the subject, numerous online courses devoted to the subject.

COURSE DESCRIPTIONS



Judson B. Wall, DDS, FAGD, FAACP, AIAOMT

HANDS-ON: Laser Augmentation of Zirconia Implant Placement

Course Description:

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.

Learning Objectives:

- Laser basics and Treatment indications
- Recent literature supporting Er:YAG and Nd:YAG laser use
- Case studies to highlight the benefits of Laser Augmentation

Biography:

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. Dr. Dominik Nischwitz



Dr. Dominik Nischwitz

THE FOOD DESIGN CONCEPT – How to “Think in Nutrients” for Optimal Health and Recovery

Course Description:

Biological Dentistry 2.0 - the overlap of functional medicine, health optimization and high-tech dentistry

THE FOOD DESIGN CONCEPT - Duration: 4 hours

The objective of this course is to learn “how to think in nutrients for optimal health” and to apply them in an easy step by step protocol to boost the osseointegration of ceramic implants and general tissue growth (anabolism). You will learn how to design a nutritional regimen independent of the current dietary mindsets like vegan, paleo, keto or intermittent fasting. We will focus on macronutrient timing and micronutrient tuning. How to implement this in the daily lifestyle as convenient as possible by “KNOWING YOUR FOODS”. Which foods you should generally avoid and which foods to load up on to make sure that the body gets all the building blocks it needs to strive and to really build bone and all the other tissues. How to build the perfect plate and how to choose the right foods when on the go. Last but not least: How to fine tune the food design with the right micronutrients. You will learn how to use the bone healing supreme protocol which contains various protein sources as well as vitamin D3 and all the other crucial cofactors like magnesium, vitamin k2, vitamin a, omega 3 fatty acids, proteolytic enzymes and various trace minerals in the right ratio. Applied functional medicine for optimal health and recovery.

Learning Objectives:

- Example: Implants, Zirconia, Bioceramics
- Nutrition – How to time macronutrients
- Systemic approach to tissue regeneration
- The most important micronutrients/supplements

Biography:

Dr. Dominik Nischwitz is a Specialist in Biological Dentistry and Ceramic Implants, functional medicine practitioner, one of the world's leading biohackers and current Vice President of the ISMI - International Society of Metal-Free Implantology. With his father, Dr. Nischwitz co-founded DNA Health and Aesthetics Center for Biological Dentistry in Tübingen, Germany in 2015. Dr. Nischwitz has exclusively used ceramic implants since 2013, placing more than 3000 to date. A pioneer in the field of holistic dentistry, Dr. Nischwitz regularly gives lectures around the world and has recently published his first book “It’s All In Your Mouth” at Chelsea Green. He trains traditional dentists in biological dentistry and believes that all health starts in the mouth.



Yuriy May, DMD, NMD, AIAOMT

Full Digital Workflow for Zirconia Implants: In-Office Digital Planning, 3D Printing, Guides, Temporization, Final Prosthetic

Course Description:

Over the last several years, in-office digital workflows have increased significantly for surgical guides, immediate temporization and final prosthetic design/fabrication. The progress has predominately been made and shared in titanium implantology with custom and/or multi-unit abutments for full arch/multi-unit cases but has eluded zirconia implantology at the in-office level for everyday practitioners. The constraints of zirconia implant abutment options for full arch and multi-implant cases have added complexity in using the novel digital in-office lab flows until now. A refined digital workflow essentially aims at simplifying clinical acts with greater predictability and speed, with clear benefit to the patient. A customized digital in-office workflow also allows the predictable utilization of once hard-to-master technologies such as zirconia one-piece implants for difficult cases such as those for full arch/multi-units. The presenter will discuss the benefits and techniques of a full-digital workflow for full arch/multi-unit zirconia implant reconstruction that drives surgical planning, procedures and restorative fabrication to guarantee natural esthetic outcomes. The author will discuss the decision points and guidelines for digital implant positioning and temporary 3D design with integrated in-office printing/milling for same day immediate temporization, as well as digitally planned final prosthetic restoration for full arch/multi-unit cases. Series of clinical cases series will be presented to the audience to illustrate the digital workflow in-office protocol, including scanning and printing/milling hardware, digital planning and designing software and material choices for temporization.

Learning Objectives:

- To show and understand the state of digital workflows and in-office 3D printing/milling
- Introduction and review of innovative zirconia implant digital workflows for complex cases
- Highlight the innovation and use of single day full arch immediate temporization with in-office digital workflows
- Understanding how and when to apply digital planning to surgical guides, temporary fabrication and final prosthetic planning
- To demonstrate the use of fully digital in-office workflows for complex, full mouth zirconia implant cases

Biography:

Dr. May received his dental degree from University of Connecticut School of Dental Medicine and completed GPR residency at Bronx Lebanon Hospital in New York City. After working in private practice for a number of years, Dr. May started his own practice focusing on full mouth reconstruction, oral implantology and metal free dentistry using the latest digital dentistry techniques and technology. Located in Connecticut, Dr. May has established a leading zirconia implant practice in the Northeast USA focusing on specialized full mouth metal-free reconstruction cases. He is an accredited member of the International Academy of Oral Medicine and Toxicology, a Founding Board member of the American Academy of Ceramic Implantology, a member of the International Academy of Ceramic Implantology board certified in Integrative Biologic Dental Medicine.



Dr. Scott Schroeder

Metal Allergies/Reactions- Systemic Effects of Implanted Metal in the Body

Course Description:

Dr. Schroeder is a Foot and Ankle surgeon who has been in practice for over 30 years. Over the past decade he has been involved in a study in which he has removed over 1,000 metallic implants in over 400 patients. He has seen significant debilitating effects from hardware that has been placed in the body with dramatic improvements after hardware removal. He presented to the FDA in the fall of 2019 on the systemic effects of metal allergies/reactions. He has presented around the world on this topic. Dr. Schroeder will present many case reports of reactions between the hardware placed in the foot and/or ankle and dental metals. One case of his resulted in a patient being paralyzed for up to 10 hours a day. This went on for four years until the metal was removed from the patient's feet and the white gold crowns with 26% palladium, which the patient was highly allergic to, were removed from the mouth. The paralysis resolved with removal of the metals both in the foot and the mouth.

He is currently involved in a study in which he is measuring the “in vivo” galvanic reaction between metallic implants he is removing from the foot and/or ankle and the patient's dental metals. Significant consistent results are being observed with, again, some very significant life changing results after metal removal. Some of the initial findings were presented in a dental meeting in Rome in early 2020. He is working on publishing this data, while some of the findings will be presented here.

Biography:

Dr. Schroeder attended Washington State University for his pre-medical education, earning a bachelor's degree in biology. He attended the California College of Podiatric Medicine for his doctorate degree and was surgically trained in the San Francisco bay area region. He has been active in Washington state podiatric associations, serving in both local and national committees, including past president of the Washington State Podiatric Medical Association. Dr. Schroeder was awarded the Washington state Podiatrist of the Year award in 2005.



Prof. Heinz Kniha, Dr. med., Dr. med. dent.

Rehabilitation with Monotype and Two Piece Straumann Full Ceramic Dental Implants in the Aesthetic Zone Using Intraoperative Scanning and Following Cad/Cam Procedures. A Retrospective Overview of 9 Years of Clinical Observation and Data

Course Description:

Background: Based on the classic publication from Tarnow 1992, 40% of anterior teeth rehabilitations with dental implants turn out not to be sufficient or satisfactory. Using titanium implant bodies we have to be concerned with tissue recession and the greyish appearance of the implant shoulders. Metal shadow through the gingiva especially in thin mucosa types, loss of the papilla formation with unfavorable “black triangles” and anomalous lining of the gingiva margins are also of concern.

Aim: Since the revival of full ceramic dental implants made of Zirkonium dioxide in the year 2005 the objectives were to be able to eliminate or at the very least avoid the occurrence of the facts mentioned above by having an inert white material without a connection gap problem as observed in the tissue level two piece design. In this presentation data obtained from 87 patients with 125 full ceramic monotype Straumann implants shall be presented retrospectively over a period of 9 years.

Materials and Method: A new measurement method was developed to obtain accurate data. A mixture of metalpowder with temporary cement serves as a marker for the papilla tip which can be recognized sharply in the single-tooth-radiograph. After calibration the distances of the gingival width and the bony contact point at the implant to the papilla tip was measured. Clinically the distance from the papilla tip to the contact point of the crowns was visualized and accurately measured using an interdental ligature under tension. So the total distance from the bone contact at the implant to the contact point of the crowns was accurately measured. According to Tarnow the height of the papilla formation was measured in relation to the length of the clinical crown.

Results: The success rates appear to be above 96%. The analysis of the data shows very clearly there is no need to be concerned with tissue recession as it is frequently observed around titanium implants, but rather we can consistently observe an improvement and growth of the hard and soft tissues.

In the majority of cases, it was observed that over time there would be full interdental papilla formation with the absence or subsequent closure of the initial “black triangles”. This was observed even when the distance from the bone contact to the interdental crown contact was above the critical distance of 5 mm decreed by Tarnow. There were no differences between immediate loading cases and classic two-stage treatment concepts. Only patients with existing compromised papilla levels maintained a more or less empty space between the crowns. However in all these cases the papilla available was enough to achieve very sufficient initial aesthetic result which continue to improve during the following years.

Conclusion: It became very obvious there is a new fascinating potential using these full ceramic monotype dental implants leading to a new much higher aesthetic results in the aesthetic zone. Following 3, 5 and 9 years long term studies reveal the stability of the results.

Biography:

Heinz Kniha was born in 1954 in Munich; 1965-1974 High School Rupprecht-Gymnasium in Munich; 1974-High School exam; 1974-1975 General Military service; 1975-1983-Studied Medicine and Dentistry at the University Erlangen and Hamburg; 1981- Dental Exam passed at the University Hamburg; 1982-Dental Doctor in the Field of Dentistry at the University Hamburg; “Histological and ultrastrukturelle Cyto-differentiation of pleomorphic Adenomas of the Salivary Glands”; 1983-Medical Exam passed at the University of Hamburg; 1985-Medical Doctor in the Field of Medicine at the University of Hamburg; “Histological and ultrastrukturelle Investigations of monomorphous Salivary Gland tumors”; 1983-1985-Residency at the Clinic of Oral and Maxillofacial Surgery at the University Munich (Chief Prof. Dr. Dr. D. Schlegel); 1986-Investigation program: Allogenic Transplantations in Animal Models for plastic u. reconstructive Surgery under regard of microsurgical tissue transfer techniques at the University of California, Irvine, USA, Dep. for Plastic and Reconstructive Surgery Prof.Dr.D.W. Furnas; 1987-1988-Residency at the Clinic of Oral and Maxillofacial Surgery University Munich Prof. Dr. Dr. D. Schlegel; Since 1988- Oral and Maxillofacial Surgeon; 1989-Lectured at the University Munich Habilitation thesis: The allogenic Transplantation of microvascular reanastomosed big combined tissue units in animal models under immunosuppression with Cyclosporin A; Since 1996-Faculty member at the University of Munich teaching in Implantology and Oral and Maxillofacial Surgery; Since 2005-Professor at the University of Munich; Since 2007-Member of the International Colleges of Dentists (ICD); Since 1989-in Private Clinic as Oral and Maxillofacial surgeon in Munich; Since 1993-Member of the International Team of Implantology (Center Waldenburg, Switzerland). Main fields in our clinic are implantology and periodontal rehabilitations. Munich, 2020 - Prof. Dr. Dr. Heinz Kniha.



Priv.-Doz. Kristian Kniha, Dr. med. dent.

Effect of Experimental Plaque Accumulation on the Soft Tissue around Titanium and Zirconia Implants in Comparison to Natural Teeth

Course Description:

Aim: To monitor inflammation parameters around zirconia and titanium implants in comparison to the natural teeth during the development of experimental gingivitis/mucositis.

Methods: After 28 days of perfect oral hygiene 16 clinically profiled patients were asked to refrain oral hygiene for 14 days resulting in an experimental plaque accumulation, following 28 days with optimal plaque control. After collecting crevicular fluid samples at weeks 4, 5, 6, 7, 8, 9 and 10 around teeth and implants (zirconia and titanium) clinical, immunological and microbiological parameters were assessed. Immunological samples were analyzed for Tumor necrosis factor alpha (TNF alpha) and Interleukin-1β (IL-1β). Microbial samples were analyzed for total bacterial cell number (TBCN) together with cell counts of bacterial species indicative for dysbiosis (Tannerella forsythia and Prevotella intermedia), applying quantitative real time PCR.

Results: A connection was confirmed between biofilm formation and soft tissue inflammation with a following recovery to baseline values. Compared with those of the zirconia and titanium implants, the TNF alpha and IL-1β values of the tooth showed a significant increase after reinstitution of oral hygiene. Around the tooth the lowest mean value of TBCN was measured, followed by zirconia implants and the highest numbers were found around titanium implants. In Tannerella forsythia positive samples, a significant lower count number around zirconium was measured compared to titanium. Prevotella intermedia sample showed a significant difference between groups (titanium vs. tooth).

Conclusions: Peri-implant soft tissues around zirconia implants developed a lower inflammatory response to experimental plaque accumulation when compared to titanium implants in terms of TBCN, Tannerella forsythia and Prevotella intermedia.

Learning Objectives: Example: Implants, Zirconia, Bioceramics

- Experimental reversible mucositis
- Zirconia
- Host response
- Plaque accumulation
- Dental implant

Biography:

Priv.-Doz. Dr. med. dent. Kristian Kniha started his residency for oral surgery in 2015 in the Department of Oral and Maxillofacial Surgery University Hospital of RWTH Aachen (Head & Chairman Frank Hölzle, M.D., D.M.D., Ph.D., FEBOMFS). In 2018 he was nominated to oral surgeon by the Zahnärztekammer Nordrhein. Additionally, in 2019 he received the Habilitation and Venia Legendi in oral surgery about the topic, “Clinical use of zirconium dioxide implants for dental rehabilitation” from the University Hospital of RWTH Aachen, Germany. Since 2021, he is working in the private clinic for oral and maxillofacial surgery, Kniha, Schlegel and colleagues in Munich, Germany.

Attendee Information:Full Name: _____ Dentist RDH RDA

Address: _____ Suite#: _____

City: _____ State: _____ Zip: _____

Daytime Phone: _____ Cell Phone: _____

Email Address: _____

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