

📅 Thursday, Mar 07, 2024

🕒 8:00 AM - 12:00 PM EST

[Hands on Workshop #1: Correction of Soft Tissue Deformities Around Dental Implants](#)



Soft tissue plastic approaches to increase the height of the keratinized mucosa and/or the thickness of the peri-implant soft tissues can be performed at three different stages: before implant placement, simultaneously with implant placement and after implant placement.

After implant insertion, especially in the mandible, it is common to face clinical scenarios in which there is complete absence or a minimal quantity of keratinized tissue, as many times this is associated with a reduced depth of the vestibular fornix and a coronal muscle insertion. In these cases where there are no esthetic demands, the main objective is to reconstruct/increase the quantity of keratinized mucosa and deepen the vestibule so as to facilitate the performance of oral hygiene by the patient and at the same time reduce the risk of soft tissue dehiscence . The most appropriate surgical technique to obtain those results is the free gingival graft.

Most of the time, soft tissue deficiencies at the buccal aspect of implant-supported crowns are a matter of thickness rather than height. The lack of adequate thickness of the buccal soft tissues can lead to incorrect emergence profiles of the prosthetic crown, which are difficult to maintain from a hygienic point of view. In these cases, the main goal of plastic surgery is not to increase the height of the keratinized tissues but to augment the thickness of the connective tissue at the level of the peri-implant transmucosal portion. This is achieved with a surgical technique that involves the use of a connective tissue graft covered by a coronally advanced flap.

Speaker(s):
👤 [Giovanni Zucchelli](#)

Location:

🕒 12:00 PM - 1:00 PM EST

[ePoster Session I](#)



Location:

🕒 1:00 PM - 1:30 PM EST

[Opening Symposium: Welcome and Opening Remarks](#)



Speaker(s):
👤 [Hom-Lay Wang](#) 👤 [Gustavo Avila-Ortiz](#)

Location:

🕒 1:00 PM - 5:00 PM EST

[Hands on Workshop #2: Digital Planning of Implant Therapy](#)



Time tested experience has shown that the best dental implant outcomes are the result of combined surgical and restorative planning. This course will take you step by step through the use of computer guided planning using implant planning software, guided surgery modalities, and intraoral scanner use. You'll further learn about CBCT scanning and how to merge these with intraoral scans to make an ideal 'model' for implant planning. You will then explore how to place dental implants in their ideal positions and how to achieve excellent restorations on these implants. The session will be devoted to hands-on experience of every facet of the implant experience from the planning to the surgery to the restorative aspects to help you solidify the concepts for use in your daily practice.

Speaker(s):

[Mark Ludlow](#)

Location:

🕒 1:30 PM - 2:15 PM EST

[How to Prevent and Manage Peri-implantitis Using the Experience Gained From Treating Implant-associated Chronic Osteomyelitis](#)



Implant-associated osteomyelitis is the bane of elective orthopaedic surgeries (i.e. total joint replacement). Staphylococcus aureus is the primary pathogen, and 50% of cases involve MRSA. I will present experimental evidence with clinical correlates demonstrating four distinct pathogenic mechanisms: intracellular infection, biofilm on implants and necrotic tissue, staphylococcus abscess communities and colonization of osteocyte lacuno-canalicular network (OLCN). I will also present pre-clinical and clinical data on the immune proteome against S. aureus, and that both protective antibodies and pathogenic antibodies exist. Protective antibodies (e.g. anti-glucosaminidase) neutralize critical S. aureus proteins, while pathogenic antibodies (e.g. anti-IsdB) facilitate Trojan horse leukocyte formation, bacteria dissemination from surgical site infection, and septic death.

Based on these basic science discoveries I will present pre-clinical research on bone targeting antibiotics, which overcome the pharmacokinetic and biodistribution limits of standard of care antibiotics, and have potential to kill bacteria within the OLCN of cortical bone. I will also present pre-clinical data on a passive immunization for MRSA. As there are many parallels between orthopaedic implant-associated osteomyelitis and peri-implantitis, I will conclude with thoughts on how this new information might be used to prevent and manage oral infections.

Speaker(s):

[Edward Schwarz](#)

Location:

🕒 2:15 PM - 3:00 PM EST

[Microbial Etiology](#)



Dental implants replace missing teeth in at least 100 million people, yet over one million implants fail every year due to peri-implantitis, a bacterially induced inflammatory disease. Our ability to treat peri-implantitis is hampered by a paucity of information on host-microbiome interactions that underlie the disease. By characterizing molecular events at the mucosal-microbial interface in the peri-implant crevice, we discovered an active peri-implant microbiome surrounding healthy implants. Microbial genes regulate human genes encoding cell development, metabolism, morphogenesis, adhesion, gap junctions, cell-cell signaling and immuno-inflammatory pathways, suggesting a role for commensals in protecting epithelial integrity. In disease, we discovered that microbial dysbiosis in the peri-implant sulcus promotes abandonment of host-bacterial transactions that dictate health and instead drives a move towards chronic programming of a non-healing wound.

Speaker(s):

[Purnima Kumar](#)

Location:

🕒 3:45 PM - 4:25 PM EST

[Immune Etiology](#)



The immune system reacts to a foreign material such as titanium and produces bone tissue around the implant to protect nearby tissues. Osseointegration is an immune response. The immune system is likewise behind marginal bone loss (MBL) around oral implants through its control of the osteoblast/osteoclast combined action. The immune system protects the implant against bacterial attacks. Numerous factors related to the implant and the patient as well as to clinical handling combine to cause MBL which is generally an aseptic reaction. If the combined factor attacks are very strong, the immune system may surrender with the result of implant failure. with a combined aseptic and septic attack on osseointegration.

Speaker(s):
 [Tomas Albrektsson](#)
Location:

🕒 4:25 PM - 5:05 PM EST

[Metallosis and Peri-implant Diseases](#)



The majority of dental scientists and clinicians believe that the primary etiology of dental implant loss is related to oral biofilm. In fact a number of recent publications indicated that this bacterial mass is the sole etiologic factor in the vast majority of cases of peri-implant mucositis and peri-implantitis. However, there is a growing body of evidence that implicates small particles of titanium and zirconium in the etiology of the inflammatory response seen in these cases. This process is termed metallosis. It was first discovered around failing prosthetic knees and shoulders. Emerging evidence has linked these particles to inflammation around dental implants. This lecture will cover the current understanding of this phenomenon and how it relates to dental implant failure as well as appropriate steps to avoid and treat the problem.

Speaker(s):
 [Thomas Wilson](#)
Location:

🕒 5:05 PM - 5:45 PM EST

[Prosthodontic Considerations to Prevent Peri-implant Diseases](#)



Over the past decade, emerging evidence indicates a strong relationship between prosthetic design and peri-implant tissue health. An ideal implant position is one of the most critical factors in achieving an acceptable implant restorative design. Malpositioned implants often result in a restorative emergence profile at the implant-abutment junction that can restrict patients' access to adequate oral hygiene. Inadequate cleansability and poor oral hygiene have been reported as precipitating factors to induce peri-implant mucositis and peri-implantitis and are influenced by restorative contours. The implant-abutment connection, restorative material selection, and restoration design are also reported in the literature as potentially affecting peri-implant soft tissue health.

Speaker(s):
 [German Gallucci](#)
Location:

🕒 5:45 PM - 7:15 PM EST

[ePoster Session II](#)



Location:

[Welcome Reception and ePoster Presentations in the Exhibit Hall](#)



Location:

🕒 7:30 PM - 9:30 PM EST

[Young Clinicians' Reception](#)



Location:

📅 Friday, Mar 08, 2024

🕒 7:00 AM - 8:00 AM EST

[Morning With the Masters #1 - Long-term Implant Stability in the Maxillary Anterior Implant](#)



Lack of soft tissue is the most common reason for esthetic failure of implants in the esthetic zone. We have learned that a bony foundation must support the soft tissue. Consequently, in cases with larger tissue defects, both bone and soft tissue augmentation is necessary. The technique used for these abutments has a significant effect on the long-term result. However, it is still unclear how the newly obtained tissues will behave in the long term. Techniques to achieve the best possible outcome and how the cases perform over several decades will be discussed based on many clinical cases.

Speaker(s):

[Ueli Grunder](#)

Location:

[Morning With the Masters #2 - Management of Implant Prosthetic Complications](#)



Prosthetic implant-related complications can be many with complex factors. However, implant restorative emergence profile (IREP) and contour are critical factors related to not only esthetic success or demise, but also implant health and caries risk. An in depth discussion of IREP as it relates to the risk and prevalence of periimplantitis and caries risk will be outlined through research and clinical examples.

Speaker(s):

[Stephen Chu](#)

Location:

[Morning With the Masters #3 - My Perspectives on Vertical and Horizontal Bone Augmentation](#)



Vertical and horizontal augmentation presents one of the greatest challenges of bone regeneration in implant dentistry. This is primarily due to the difficulty of the surgical procedure and its potential complications. However, it has been demonstrated that successful clinical outcomes can be predictably achievable when strict protocols are followed. The detailed understanding of clinical anatomy should guide the clinician when managing the soft tissue flaps in an attempt to securely close the flaps to achieve optimal healing environment of the graft. Graft immobilizations, the optimal use of graft materials are essential in achieving bone formation even in a distance from the bony walls. This presentation will summarize the essential steps of ridge augmentation and gives an insight how a clinician can learn these demanding procedures.

Speaker(s):

[Istvan Urban](#)

Location:

[Morning With the Masters #4- Management of Peri-implant Disease](#)



Dental implants replace missing teeth in at least 100 million people, yet over one million implants fail every year due to peri-implantitis, a bacterially induced inflammatory disease. Our ability to treat peri-implantitis using biologically validated methods has led to 100% recurrence rate for the disease. This presentation will discuss how we can harness biological mechanisms to increase therapeutic success.

Speaker(s):

[Purnima Kumar](#)

Location:

[Morning With the Masters #5 - Sinus Augmentation](#)



This presentation will focus on optimizing the lateral access technique to the maxillary sinus and enhancing our clinical outcomes with clinical details that improve treatment predictability, such as the surgical lateral window creation, proper management of the Schneiderian membrane, and correct handling of biomaterial within the maxillary sinus.

Speaker(s):

[Pablo Galindo-Moreno](#)

Location:

[Morning With the Masters #6 - Long Versus Short Implants](#)



Sufficient bone quantity for implant placement may be compromised following tooth loss and bone resorption. Bone grafting is often required to place an adequate number of dental implants in ideal positions for prosthetic support. Inherent disadvantages of bone grafting techniques include increase morbidity, surgical time, costs and treatment length. As such an evolving trend has developed towards treatment approaches that avoid bone grafting including shorter and narrower implants, angled implants and/or fewer implants for prosthetic support. Growing data and evidence suggest that short implants can be an effective alternative to vertical bone augmentation for placing longer implants.

Speaker(s):

[Craig Misch](#)

Location:

8:00 AM - 12:00 PM EST

[Oral Clinical Research Abstract Session](#)



Location:

[Hands-on Workshop #3: Implant Provisionalization in the Esthetic Zone](#)



For natural appearance of implant-supported prostheses placed in aesthetic areas, the preservation and/or reconstruction of the tissue volume is crucial in many instances. Soft tissue, bone, or combined augmentation may be attempted to reduce alveolar ridge defects and enhance the alveolar contour at the edentulous segment. However, while adequate tissue volume around anterior implants is a key to aesthetic success, proper management of the provisional and definitive restoration are of paramount importance to obtain optimal esthetic results.

In this hands-on session, fundamental concepts for subgingival abutment design and the role of the critical and subcritical contour to sculpt the peri-implant soft tissues, including the mucosal margin level, architecture and color, will be described step-by-step.

Speaker(s):

[Oscar Gonzalez-Martin](#)

Location:

8:15 AM - 9:00 AM EST

[Surgical Track: Mucogingival Approaches for the Management of Peri-implant Disease](#)



In the beginning, osseointegration was thought to be sufficient for long-term successful implant rehabilitation. With time, it became clear that soft-tissue integration is of paramount importance for long-term success. Recent studies suggest that the absence or a reduced width of KM may negatively affect self-performed oral hygiene measures, and that poor plaque control constitutes a risk factor for peri-implantitis. As a result, in cases of peri-implant biological complications, the treatment should also be focused on the creation of an effective soft-tissue barrier capable of biologically protecting the peri-implant structures.

Speaker(s):

[Mario Rocuzzo](#)

Location:

[Prosthetic Track: Management of Common Implant Prosthetic Complications](#)



This presentation will discuss the prevalence of implant prosthetic complications, the reason for these complications as well as information on how to best manage these complications.

Speaker(s):

[Shih-Cheng Wen](#)

Location:

9:00 AM - 9:45 AM EST

[Prosthetic Track: Prosthetic and Biological Complications: Assessing Implant Health](#)



Restoration of the dental implant represents a clear challenge for the dentist. Not only immediate, such as what type of connection, cement or screw retained, the material to use, but also how to best implement the tools we use such as torque wrenches. Beyond the initial restoration goes the challenge of maintain the site- evaluating for disease- what tests to use and how useful they are. Then comes contact point issues, which are known to open during normal aging and the sequelae that comes with these tooth movements (food impaction, caries screw loosening, periimplant disease, material fracture..) This lecture will discuss how research has helped answer some of these clinically relevant questions along with advice on how to manage the problems we all have for best practice.

Speaker(s):

[Chandur Wadhvani](#)

Location:

[Surgical Track: Implantoplasty in the Surgical Treatment of Peri-implantitis](#)



Many of the peri-implantitis lesions treated today are complex in their bone morphology as the remaining walls surrounding the affected dental implant are not always circumferential i.e. clot/graft containing in their configuration. Moreover, the disease process may also leave portions of the implant body supracrestal to any remaining lesion. This is due to a variety of factors including the position of the dental implant. In those areas where regenerative treatment is not possible, it may be best to decontaminate the surface with implantoplasty and manage the remaining lesion through resection. The goal is to establish heath with cleansability. On the other hand, there may be a number of combination lesions where a hybrid approach i.e. regeneration with resection should be provided. This lecture will explore the reasons and benefits to using implantoplasty as a monotherapy as well as in combination with regeneration.

Speaker(s):

[Paul Rosen](#)

Location:

10:30 AM - 11:15 AM EST

[Surgical Track: Regenerative Approach for the Management of Peri-implantitis](#)



Speaker(s):

[Istvan Urban](#)

Location:

[Prosthetic Track: Management of Single-tooth Implant Prosthetic Nightmares](#)



Single dental implants have now been used in the esthetic zone for over thirty years. There exists a large cohort of patients with well-integrated dental implants who desire esthetic improvement of their restoration after decades of service. For some, implant removal may be the ideal treatment, but for many, expectations can be met with a detail-oriented approach to re-restoration of the existing fixture. The modern implant clinician must be adept at identification, retrieval, provisionalization, and complex interdisciplinary treatment planning for these patients with existing implants in the esthetic zone.

Speaker(s):

[Julie Ann Mitchell](#)

Location:

11:15 AM - 12:00 PM EST

[Surgical Track: Management of Peri-implant Deformities Leveraging Soft Tissue Augmentation](#)



Soft tissue grafting has emerged as a valuable technique to address these complications and enhance the esthetic and functional outcomes of dental implants. This presentation reviews the current literature on the management of peri-implant deformities using mainly soft tissue grafting techniques. A treatment-driven classification will be presented, consisting of three different levels of complexity. Clinical recommendations pertaining to the prosthetic and surgical management of each type of peri-implant marginal mucosal defect will be illustrated with practical examples, facilitating decision-making processes in daily practice.

Speaker(s):

[Iñaki Gamborena](#)

Location:

[Prosthetic Track: Planning and Executing Complex Prosthetic Rehabilitations](#)



Patient diagnosis and treatment planning are critical steps in implant care. Trends in corporate influenced treatment may not be the direction for every patient. In addition, the concept of tabling and removal of bone to allow hygiene in the age of peri-implantitis may not be advantageous to the patient long term. Therefore, a comprehensive discussion of treatment planning, timing, and sequencing will be discussed with FP1 to FP3 restorations. Lastly, materials for transitional and definitive restorations will be covered in regards to strength and esthetics of the prosthesis.

Speaker(s):

[Stephen Chu](#)

Location:

12:00 PM - 1:30 PM EST

[ePoster Session III](#)



Location:

[Young Clinicians' Luncheon](#)



Location:

12:30 PM - 3:45 PM EST

[Hands on Workshop #4: Vertical Bone Augmentation](#)



Vertical and horizontal augmentation presents one of the greatest challenges of bone regeneration in implant dentistry. This is primarily due to the difficulty of the surgical procedure and its potential complications. These complications include post-surgical swelling, bruising, and potential neurosensory disturbances. Minimally invasive flap management that can minimize the chances of these complications will be revealed during this hands-on course. Graft harvesting, membrane fixation for vertical augmentation as well as for the Sausage Technique TM will be practiced. A step-by-step approach how to protect the neurovascular bundles such as the mental nerve and how to achieve a safe, tension-free closure will be discussed during this practical course.

Speaker(s):

[Istvan Urban](#)

Location:

1:30 PM - 2:15 PM EST

[Surgical Track: Strategies for Predictable Horizontal Bone Augmentation](#)



Bone augmentation is often required to place an adequate number of dental implants in ideal positions for prosthetic support. There are various techniques that are available for horizontal bone augmentation including guided bone regeneration, block bone grafting, mesh grafting, and ridge expansion. This presentation will guide clinicians on a decision tree for horizontal bone augmentation in preparation for implant rehabilitation.

Speaker(s):

[Craig Misch](#)

Location:

[Prosthetic Track: Current Controversies in Implant Rehabilitation](#)



In this lecture, you will learn what the profile of the superstructure should be, what the peri-implant tissue should be like, and the advantages and disadvantages of cement and screw retained.

Speaker(s):

[Masahiko Kanenari](#)

Location:

1:30 PM - 5:10 PM EST

[Oral Scientific Research Abstract Session](#)



Location:

1:30 PM - 5:15 PM EST

[Clincial Innovations Session](#)



Location:

2:15 PM - 3:00 PM EST

[Surgical Track: Strategies for Predictable Vertical Bone Augmentation](#)



Patients with missing teeth in the “esthetic zone” may present with severe hard and soft tissue loss. While many techniques offer excellent results for reconstruction of these defects, few can be said to guarantee success. A bone augmentation procedure to correct a vertical defect in the esthetic zone that is not fully successful in correcting the defect often ensures the use of prosthetic pink. This leads to the treatment dilemma: “if we have to use a little pink, why not use a lot of pink” and spare the patient the painful bone augmentation in the first place? The aim of this lecture is to critically evaluate the current evidence to determine the predictability of various bone augmentation techniques for vertical ridge defects for implant placement and when to consider more conservative alternative treatment options.

Speaker(s):

[Bach Le](#)

Location:

[Prosthetic Track: Challenges in Contemporary Implant Prosthodontics](#)



In dentistry, we live in a constantly changing environment. New workflows, materials, techniques and products inundate our lives on nearly a daily basis. In this presentation, we will examine the most current concepts and controversies in the diagnostic, surgical, and restorative aspects of implant dentistry in order to simplify and streamline their application into your daily practice.

Speaker(s):

[Mark Ludlow](#)

Location:

3:45 PM - 4:30 PM EST

[Surgical Track: Strategies for Predictable Maxillary Sinus Floor Augmentation](#)



This presentation will discuss various techniques for maxillary sinus elevation, their advantages and disadvantages, their suitability compared to other techniques, and their clinical outcomes. We will also delve into graft maturation and the nature of newly formed bone, depending on the combination of materials used.

Speaker(s):

[Pablo Galindo-Moreno](#)

Location:

[Prosthetic Track: Material Selection in Single-unit or Short-span Implant Prostheses](#)



This presentation will review the current best available evidence and guidance for the restoration of implants in the partially edentulous patient. It will provide an overview of currently available materials and designs for abutments and prostheses for single unit implant crowns and short span prostheses.

Speaker(s):

[Todd Schoenbaum](#)

Location:

4:30 PM - 5:15 PM EST

[Surgical Track: Strategies for Predictable Bone Augmentation Leveraging Tissue Engineering Strategies](#)



Current treatment modalities to restore lost alveolar bone tissues can provide functional and structural restoration of the compromised or lost tissues; yet, many of these approaches do not meet the need for more biologic and predictable treatment outcomes. Historically, the use of different biomaterials and grafting techniques has established a strong platform for the development of regenerative medicine concepts toward achieving “true” tissue regeneration. As part of dental implant therapy, alveolar bone grafting is considered standard-of-care for patients with alveolar bone deficiencies. Though routinely performed, these grafting procedures still have limitations. This discussion will describe innovative and emerging personalized medicine and tissue engineering strategies for reconstruction and regeneration of alveolar bone tissues. Key regenerative medicine principles will be discussed and clinical cases will be presented demonstrating how tissue engineering strategies can be implemented in clinical practice.

Speaker(s):

[Darnell Kaigler](#)

Location:

[Prosthetic Track: Full-arch Rehabilitation: Removable Versus Fixed](#)



The primary objective of an immediate loading protocol is to minimize the need for multiple surgical procedures and expedite the time between surgery and prosthetic delivery, all while maintaining high implant success rates and achieving optimal functional and aesthetic outcomes. Immediate loading protocols can effectively alleviate patient concerns and significantly enhance the acceptance of implant therapy.

During the lecture, we will provide a step-by-step demonstration of two novel full digital protocols for fully edentulous and transitional patients: the Simplified Digital Protocol (SDP) and the Minimally Invasive Full Arch Protocol (MIFA).

These state-of-the-art protocols empower clinicians to efficiently deliver the final prosthesis in a cost-effective manner. Furthermore, we will discuss any complications and limitations associated with these novel protocols.

Speaker(s):

[Tiziano Testori](#)

Location:

5:15 PM - 6:00 PM EST

[Emerging Leaders Session](#)



Location:

Saturday, Mar 09, 2024

8:00 AM - 9:45 AM EST

[Team Program: Effective Communication With the Lab Technician](#)



Following this presentation, participants should be able to utilize today's technology to efficiently communicate with laboratory partners. Participants will see how this advanced digital communication between clinician and technician works in conjunction with advanced digital workflows to achieve more accurate results than have been achieved previously. Single unit implant cases to full arch rehabilitations can benefit from these advancements. See how this communication between the implant team and restorative team aids in success and is realized by not only the practice but the final restorative result for the patient. Secure methods of patient sensitive data transfers will be discussed.

Speaker(s):

[Jack Marrano](#)

Location:

🕒 8:00 AM - 12:00 PM EST

[Hands on Workshop #5: Surgical Management of Peri-implant Diseases](#)



The soft tissue part of this hands-on course is designed to help dentists conduct their soft tissue grafting surgery with higher predictability, less donor site morbidity and therefore increase both dentists' confidence and patients' acceptance when dealing with peri-implant phenotype modifications.

This workshop is designed to help dentists manage peri-implantitis with higher predictability, less trauma and therefore increase both the dentist's confidence and patient's acceptance when dealing with peri-implantitis. Participants will learn the principles and techniques to provide more predictability and less trauma for their patients in the management of peri-implantitis.

Speaker(s):

[Shih-Chang Tseng](#) [Shih-Cheng Wen](#)

Location:

🕒 8:15 AM - 9:00 AM EST

[Management of Peri-implant Esthetic Complications: Peri-implant Soft Tissue Dehiscences: Classification and Treatment](#)



The recession of the buccal soft tissue margin is a frequent complication of well-integrated dental implants. The appearance of metallic structure or even their transparency through the thin buccal soft tissues are common reasons for patient aesthetic complaints. Moreover, bad implant installation frequently results in excessive apical dislocation of the buccal soft tissue margin of the implant-supported crown. Soft-tissue, plastic surgical procedures and bilaminar techniques in particular, can be successfully used in combination with a pre- and post- surgical prosthetic approaches to increase the volume of the interdental soft tissue, to treat buccal gingival recessions and soft tissue dehiscence around dental implants and to provide the new implant supported crown with an esthetic transmucosal emergence profile.

Speaker(s):

[Giovanni Zucchelli](#)

Location:

🕒 9:00 AM - 9:45 AM EST

[Management of Peri-implant Esthetic Complications: State-of-the-Art Management of Peri-implant Soft Tissue Deformities](#)



In most lectures, the wonderful successes are shown first and foremost. But unfortunately, this is never the whole clinical reality. Anyone who treats many patients must also expect complications and solve them in some way. In the esthetic zone in connection with implants, problems are often difficult to correct. Possible problems are numerous and can include ugly scar tissue, soft tissue discoloration and, most commonly, lack of soft tissue volume. In this lecture, we will discuss how to manage problems that occur during treatment and how to treat late complications.

Speaker(s):

[Ueli Grunder](#)

Location:

🕒 10:15 AM - 12:00 PM EST

[Team Program: Don't Have a Screw Loose! Supportive Dental Implant Therapy: Current Evidence and Protocols](#)



Implant-related complications are common and difficult to manage. Many patient-, site-, and fixture-related factors convey risk of future peri-implant diseases and must be considered as a part of developing patient-centered implant maintenance plans. Such ongoing peri-implant maintenance protocols are critical for long-term implant success and survival. For these reasons, implant maintenance and patient-delivered home care that includes implant evaluation and delivery of supportive therapy in a individualized, risk-based schedule should be performed. This presentation will focus on common clinical scenarios and the mechanisms to employ primary prevention of peri-implant diseases through proactive, evidence-based implant maintenance.

Speaker(s):

[Mia Geisinger](#)

Location:

10:30 AM - 11:15 AM EST

[Management of Peri-implant Esthetic Complications: Implants in the Esthetic Zone: Risks, Complications, and Solutions](#)



To achieve predictable and optimal outcomes, contemporary multidisciplinary treatment in periodontal patients should aim to achieve not only functional stability but also aesthetic harmony. The sequelae of periodontitis represent a complex therapeutic challenge. Among them, tooth replacement in the anterior zone with dental implants implies careful diagnosis and treatment planning in the context of interdisciplinary dentistry. In this lecture, protocols to facilitate the execution of interdisciplinary treatment plans to rehabilitate the aesthetic zone in patients with a history of periodontitis will be presented, with a special focus on minimally invasive techniques.

Speaker(s):

[Oscar Gonzalez-Martin](#)

Location:

11:15 AM - 12:00 PM EST

[Multi-disciplinary Approaches for Management of Peri-implantitis](#)



Peri-implantitis is a plaque-associated pathological condition characterized by the mucosal inflammation along with progressive loss of supporting bone. Substantial evidence suggests that non-surgical therapy is of limited efficacy in arresting further bone loss, thus indicating the necessity of surgical intervention in the majority of patients diagnosed with peri-implantitis.

Achieving optimal treatment results in diverse clinical situations requires proper knowledge of indications and surgical performance of different surgical treatment modalities. This lecture will cover different surgical peri-implantitis treatment concepts, including reconstructive, resective, and combined surgical therapies, and the decisive factors in determining which surgical technique is most appropriate in different peri-implantitis cases. Important aspects of soft-tissue management and rationale for soft-tissue volume grafting following surgical peri-implantitis treatment, as well as the prognostic factors associated with treatment outcomes will be further discussed.

Speaker(s):

[Ausra Ramanauskaite](#)

Location:

12:00 PM - 1:30 PM EST

[Lunch With the Masters #1 - Use of Lasers in Implant Therapy](#)



With peri-implantitis on the rise, laser therapy for implant surface detoxification is becoming more demanding than ever! This session aims to bridge the knowledge gap between fundamentals and clinical applications of lasers used to treat periimplantitis. This presentation will include the surgical management involving hard and soft peri-implant tissues as well as the appropriate follow up cases to ensure treatment outcomes.

Speaker(s):

[Hector Sarmiento](#)

Location:

[Lunch With the Masters #2 - Microsurgery Applications in Implant Surgery](#)



Peri-implant diseases are emerging with tenacious complications. The etiology is unclear with unpredictable treatment outcomes. Millions of patients with dental implants are haunted and threatened by these diseases. Through clinical practices and experiences with the operating microscope, we have this unique opportunity to evaluate the etiologic factors and perform precise tissue management under higher magnification and with micro-instruments. The modified microsurgical treatment protocol has led to favorable preliminary outcomes. Minimally invasive soft tissue management, implant surface decontamination, and biomaterial stabilization might have contributed to these positive regenerative outcomes. Non-invasive and point-of-care ultrasound imaging of peri-implant tissues of diseased implants provides not only anatomical information important for clinical decision making but also functional information possibly related to wound healing and prognosis. Bony defect topography, soft tissue dimensions and quality can be evaluated on ultrasound. Quantitative tissue perfusion analysis from ultrasound could shed light on understanding of regenerative wound healing of treated implants. The quality of socket healing that may relate to implant prognosis and longevity could be evaluated by ultrasound, based on our recent study. This presentation will cover fundamentals about the use of the operating microscope for managing peri-implant diseases and new findings from ultrasound research on peri-implant diseases.

Speaker(s):

 [Hsun-Liang Chan](#)

Location:

[Lunch With the Masters #3 - Pathophysiology of Peri-implant Diseases: The Systemic Link](#)



Peri-implantitis is characterized by inflammation and infection around dental implants, which can lead to implant failure if left untreated. An imbalance or shift in the composition of the oral microbiome and its interactions with the host mucosal mediators can disrupt the equilibrium between beneficial and harmful micro-organisms. The lecture sheds light on the alterations in this peri-implant environment using microbiomics, transcriptomics, imaging, and validating findings with targeted quantification approaches.

Speaker(s):

 [Sukirth Ganesan](#)

Location:

[Lunch With the Masters #4 - How to Deal With Common Implant Prosthetic Nightmares](#)



As the patient ages, it is possible that dental implant fixtures that are well-integrated and healthy can be restored two or even three (or more) times over several decades. The modern restorative or prosthodontic clinician must be able to efficiently and effectively integrate existing dental implant fixtures into new treatment plans so as to avoid unnecessary surgery or cost to the patient. To do this, a strong understanding of abutment and prosthetic design is necessary. We will review cases and principles for removing existing implant prosthetics and re-restoring dental implants, and treatment planning for new dental implants to be useful for future work.

Speaker(s):

 [Julie Ann Mitchell](#)

Location:

[Lunch With the Masters #5 - In-house Fabrication of Surgical Guides Using Digital Technologies](#)



The role of digital technologies in dental implant therapy has rapidly expanded over the last 15 years. CBCT imaging for implant planning is now an industry norm. The use of surgical guides, however, continues to lag significantly behind. Recent changes in software accessibility and 3D printing remove many of the obstacles hindering wider adoption. Join us as we discuss the latest developments in guided implant surgery with a focus on in-house management of the process.

Speaker(s):

 [Clint Stevens](#)

Location:

[Lunch With the Masters #6 - Soft Tissue Manipulation Around Dental Implants](#)



This presentation will cover mucogingival surgery to oral plastic surgery and the tidal wave of soft tissue grafting and optimal flap reposition/rotation management. The clinical major differences of oral plastic surgery between natural teeth and dental implants will be discussed as well as the challenge of soft tissue augmentation around dental implant phenotype modifications. Is there any more predictable and less invasive approach and what does it take?

Speaker(s):

[Shih-Chang Tseng](#)

Location:

🕒 1:30 PM - 2:00 PM EST

[AO Annual Business Meeting](#)



Location:

🕒 1:30 PM - 2:45 PM EST

[Team Program: Effect of Mechanical Instrumentation on Implant Surface Debridement](#)



Biofilm has been implicated as the number one factor in peri-implant diseases. The purpose of supportive implant care and non-surgical treatment is to help manage and reduce biofilm and other factors to prevent and maintain peri-implant health. But is there a one-size-fits-all magic bullet? In this session, participants will examine the various approaches to effective implant surface debridement, and factors that can impact the efficacy.

Speaker(s):

[Danielle Rulli](#)

Location:

🕒 2:00 PM - 2:45 PM EST

[Closing Symposium: Avoid Implant Complications Through Phenotype Modifications: The Power of Soft Tissue Augmentation](#)



This lecture will discuss soft tissue components of the peri-implant phenotype and the biologic classification of soft tissue graft materials from clinical perspectives to highlighting the characteristics and predictability of soft-tissue graft materials in different clinical scenarios.

The principles, selections, procedures and technique notes of managing peri-implant phenotype modification via soft-tissue grafts and flaps in a less invasive but more predictable ways to increase soft tissue volume, augment keratinized tissue, improve implant esthetics, etc will be demonstrated to not only achieve long term stability but also avoid implant complications for the next generation of practice.

Speaker(s):

[Shih-Chang Tseng](#)

Location:

🕒 2:45 PM - 3:30 PM EST

[Closing Symposium: Built to Last: Decision Making for Implant Placement in Medically Compromised Patients](#)



In implant dentistry, we often say “dental implants must be prosthetically driven” but is this statement incomplete if it does not consider patient as a factor in implant placement? Indeed, despite the ubiquity of dental implants in our environment, challenges remain due to the high prevalence of peri-implant disease, esthetic concerns, and myriad surgical protocols. As dental healthcare professionals, we aim to limit risk and optimize outcomes for each patient we see. This course seeks to aid dental healthcare providers in recognizing medical risks that may impact patient outcomes for dental implant placement and to develop protocols that weigh and the risks and benefits for each of our patients so that we can deliver treatments that are “prosthetically driven AND biologically executed.”

Speaker(s):

[Mia Geisinger](#)

Location:

🕒 2:45 PM - 4:00 PM EST

[Team Program: The Use of Lasers for the Treatment of Peri-implant Diseases](#)



Treating the biologic complications of peri-implant mucositis and peri-implantitis has remained a conundrum for clinicians. As the use of lasers in dentistry has continued to expand in both acceptance and application, employing them for managing these two conditions has been one approach to gaining greater predictability and success. This lecture will update the audience on scientific evidence for laser use for both peri-implant mucositis and peri-implantitis. Clinical cases will also be provided showcasing why different lasers are being employed by practitioners as an integral part for managing implant biologic complications.

Speaker(s):

👤 [Paul Rosen](#)

Location:

🕒 3:30 PM - 4:15 PM EST

[Closing Symposium: Use of Digital Technologies and Artificial Intelligence to Optimize Implant Therapy](#)



The era of digital dentistry has exploded in the last 20 years and has fundamentally changed our profession. However, it has also come at a price which questions our biologic compass as treatment has become heavily predicated on computer-guided expectations compared to decision making based on surgical experience and core treatment planning principles. From each full volume CBCT scan, a historical picture of growth and development can be gleaned, influencing our decision making. To that end, each treatment plan we put forth and the materials we choose to alter or influence bone can have consequences on the healing dynamics, the esthetic/biologic outcomes realized and, ultimately, our successes in creating sustainable conditions. The digital era has not only provided better diagnostic capabilities to assess and plan, but has given us expanded planning modalities to design more personalized surgical therapies when complex bone construction efforts are needed. This presentation will provide a historical background of guided implant technology, review current digital therapies and provide a look into the future where artificial intelligence may change the paradigm even further.

Speaker(s):

👤 [George Mandelaris](#)

Location:

🕒 4:15 PM - 5:00 PM EST

[Closing Symposium: Interdisciplinary Communication to Optimize the Results of Implant Therapy](#)



This talk is structured to review and discuss collaborative interdisciplinary approaches, identifying and addressing patient needs versus providing individual multidisciplinary treatments. It will aim to improve basic knowledge and timely recognition of peri-implant issues and conditions. Exploration of various, age-appropriate prosthodontic treatment modalities will be discussed. Findings, diagnosis, treatment options and sequencing of the options for new patients and the treatment progress of existing patients, with consideration of esthetics, function and longevity will be reviewed.

Speaker(s):

👤 [Kumar Shah](#)

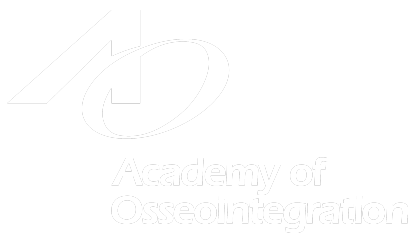
Location:

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Quick Links

- Opening Symposium
- Hands-on Workshops
- Morning With the Masters
- Corporate Forums
- Surgical Track

- Prosthetic Track
- Emerging Leaders
- Young Clinicians Luncheon
- Managment Peri-Implant...
- Lunch With the Masters
- Closing Symposium
- Team Program



Resources

- AO Website
- Become A Member
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#AO24Charlotte



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