



ABSTRACTS BOOK



15-17
May 2025
San José - Costa Rica



Friday, May 16th

09.00am - 10.00am

Room: Central 1

Prof. Liran Levin

Category

Periodontology

Dental Trauma

Title

Auto-transplantation – Why, When and How?

Abstract

Periodontology in recent years, is looked sometime as crown lengthenings and tissue graftings solely. However, periodontology can, and should, offer much more than these services to our patients and to the referring dental practitioners. Auto-transplantation is perceived, by many clinicians, as an outdated treatment with no valid indication even though the evidence is there to support this procedure. This lecture will dive into some less common and less highlighted features that can help us preserve soft and hard tissues in post-traumatic situations in children and adult patients. Reasoning, indications and protocols for auto-transplantation will be discussed.

Learning Objectives

- Understanding the less common management and treatment options for tissue preservation.
- Discussing practical ways for prevention of soft and hard tissue loss by auto-transplantation.
- Discussing creative treatment modalities like auto-transplantations following dental trauma.



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.



Friday, May 16th

11.00am - 12.00pm

Room: Central 1

Prof. Liran Levin

Category

Periodontology

Implant

Title

Peri-implantitis – All you want (or not) to know!

Abstract

During the last years, the use of dental implants is becoming a common practice and peri-implant diseases are more frequently evident. Apparently, as time goes by and also implies from the available literature, we will be seeing more and more cases of peri-implant diseases. This is also an important aspect of informed consent for our patients. Another troubling issue with regards to peri-implant diseases is the lack of appropriate, well-documented gold-standard treatment, specifically for peri-implantitis. There are many suggested treatment options described in case reports and case series in the literature; none of them seems to provide a predictable long-term resolution of the disease.

In order to prevent and treat peri-implant diseases, there is a need to understand the nature of the disease and the risk factors.

This lecture will focus on causes and risk factors for peri-implant diseases, ways to prevent its occurrence as well as the currently available treatment options for peri-implantitis. Preventive measures as well as treatment planning dilemmas will be discussed as well.

Learning Objectives

- To understand the risk factors for peri-implant diseases
- To explore ways to prevent peri-implant diseases
- To recognize the occurrence as well as the currently available treatment options for peri-implantitis



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Friday, May 16th

12.00pm - 1.00pm

Room: Central 1

Dr. Julian Conejo

Category

Prosthodontics

Title

Esthetic Implant Dentistry

Predictable Clinical Implementation to Achieve High Esthetic Results

Abstract

A step by step digital workflow to improve success rates on single and multiple-unit implant supported restorations will be presented during this lecture.

Learning Objectives

- The main objective of this lecture is to show how treatment time optimization and better clinical outcomes are possible with the implementation of digital tools like guided surgery, immediate provisional and the latest digital impression techniques..
- Review the available materials for definitive single and multiple unit implant supported restorations.
- Learn how to successfully restore edentulous patients, from the implementation of stackable surgical to the elaboration of a highly esthetic and functional prototype before definitive full-arch prosthesis.



1

ADA C·E·R·P®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Friday, May 16th

2.30pm - 3.30pm

Room: Central 1

Dr. Julian Conejo

Category

Prosthodontics

Aesthetic dentistry

Title

The Digital Revolution

Highly Esthetic Ceramic Restorations

Abstract

This lecture focuses on highly esthetic tooth and Implant-supported restorations through the implementation of digital technologies.

A detailed update on the latest materials, clinical workflows and manufacturing techniques for 2025 will be presented.

Learning Objectives

- The main objective of this lecture is to show how treatment time optimization and better clinical outcomes are possible with the implementation of digital tools from the diagnostic phase through facially driven mock-ups and 3D printing alternatives to th
- Update participants in new methods to elaborate long-term provisional restorations and their respective polishing protocols for optimal esthetics and soft tissue response before insetion of definitive restorations.
- Review step-by-step clinical protocols for tooth preparations and bonding optimization of full-ceramic CAD/CAM restorations with evidence-based concepts.



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Friday, May 16th

3.30pm - 4.30pm

Room: Central 1

Prof. Richard Price

Category

General Restorative Dentistry
AI (Artificial Intelligence)

Title

ChatGPT for dental materials

Abstract

This presentation will present and review different uses of Chat GPT for dentistry

Learning Objectives

At the end of this course, participants will:

- Know how to access chatGPT for dental materials
- Know the best wording to use when accessing chatGPT for dental materials
- Gain insight how to determine when chatGPT for dental materials is hallucinating.




1

ADA C·E·R·P®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Friday, May 16th

9.00am - 10.00am

Room: Central 2

Dr Sergio Velazquez

Category

Orthodontics

Laser

Title

Diode laser in dentistry: Innovation that transforms smiles and changes lives.

Advantages of diode laser in our everyday practice.


Abstract

The lecture on the application of diode laser technology in dentistry is advancing robustly. Our objective is clear: to thoroughly explain and demonstrate the numerous possibilities and uses of diode lasers, with a strong focus on both surgical applications and the extensive benefits of Photobiomodulation (PBM) therapy.

I have compiled a diverse array of clinical examples that unequivocally showcase the versatility of diode lasers. These cases demonstrate their exceptional effectiveness in soft tissue surgeries such as gingival contouring and frenectomies, evidencing substantial advantages like reduced healing times and decreased patient discomfort. This compilation solidifies my intent to present a compelling argument for the integration of diode lasers in surgical practices.

Moreover, after actively gathering and analyzing research, my own and others, and case studies related to the use of diode lasers in PBM therapy. This cutting-edge area is proving to be instrumental in promoting tissue healing, alleviating pain, and reducing inflammation. By scrutinizing existing literature and engaging with dental practitioners who have effectively implemented PBM.

Learning Objectives

- Understand what is a diode laser.
 - How does a dental diode laser work.
 - Diode laser applications in modern dentistry.
 - Surgical applications of diode lasers.
 - PBM therapy with diode laser.
- 



Friday, May 16th

11.00am - 12.00pm

Room: Central 2

Prof. Néstor Schejtman-Plotnik

Category

Prosthodontics

Title

Restorative Systems: Evolution. When and Why?

Abstract

Attendees will learn which restorative systems to choose for different clinical situations, leveraging the benefits of various systems and materials to achieve a successful end result for each patient.

Learning Objectives

- Identify the key evolutionary advancements in restorative systems and their clinical implications.
- Evaluate the advantages and limitations of different restorative materials in various clinical scenarios.
- Apply evidence-based decision-making when choosing different restorative approaches to optimize long-term success.





Friday, May 16th

1.30pm - 2.30pm

Room: Central 2

Dr. Arturo Bilbao

Category

Oral and Maxillofacial Surgery
Implant

Title

Zygoma implants. Application in oncologic patients


Abstract

Rehabilitation of oncologic patients after ablative surgery is sometimes difficult because we have to reconstruct soft tissues, bone and teeth.

Microsurgical flaps, subperiosteal structures, distraction are used in many patients with good results but with risk of complications, long- time expended treatment, and sometimes very expensive.

We present our possibilities remarking de use of the miofascial temporails flap, combined with immediate insertion of zygoma implants, obtaining good and quick results both from the asethetic an functional point of view.

Learning Objectives

- To describe the possibilities of reconstruction of the maxilla after ablative surgery,, considering time, cost and results of the surgery
 - To stablish a protocol of tratment and dental rehabilitation in onclogic patients who underwent surgery.
 - To demonstrate our short and medium term results in patients with immediate reconstruction and insertion of implants without using bone grafts or flaps, considering advantages and disadvantages.
- 



Friday, May 16th

2.30pm - 3.30pm

Room: Central 2

Dr Daniel Chavarria-Bolaños

Category

Oral and Maxillofacial Surgery

Risk Factors

Title

Prognostic Criteria in Endodontics: The Border Between Letting Go and Attempting to Save

Abstract

Every day, our clinics save thousands of teeth affected by endodontic pathology, restoring health and peace of mind to patients. However, some of these cases may involve factors that compromise treatment success rates. In such situations, the patient's confidence takes on a new perspective, leading them to seek treatment options that ensure a better outcome or even a guarantee from the clinician.

In this context, a critical and interdisciplinary analysis of the initial treatment conditions, as well as the subsequent rehabilitation considerations, plays a key role in the acceptance or rejection of a specific procedure. Likewise, these criteria are crucial when a patient presents with an endodontic treatment that shows evidence of failure, raising the dilemma of whether to attempt a new intervention or opt for an alternative rehabilitation approach.

This conference will explore, through the critical discussion of clinical cases, the essential local and systemic criteria for decision-making in the treatment of endodontic pathologies.

Learning Objectives

- Identify prognostic criteria in the preoperative, intraoperative, and postoperative stages of endodontic pathology.
- Analyze the current definitions of success, failure, and survival of endodontically treated teeth.
- Assess the available evidence on success rates for different treatment modalities in endodontically compromised teeth.





Friday, May 16th

3.30pm - 4.30pm

Room: Central 2

Prof. Néstor Schejtman-Plotnik

Category

Prosthodontics

Title


Implant digital cases in the esthetic zone

Learning curve from Analogue to digital

Abstract

Presentation of the learning curve on digital guided surgery, vs free handed surgery, Cement vs retained implant crowns. Differences of dental materials and how to select them.

Learning Objectives

- How to manage esthetic cases in terms of Cad Cam technology
 - Dental materials, differences between feldespatic, lithium disilicate, and zirconia
 - Guided surgery vs NON guided surgery
 - Cement vs screw retained implant crowns
- 



Friday, May 16th

09.00am - 11.00am

Room: Central 3

Dr Cristian Higashi

Category

General Restorative Dentistry

Aesthetic dentistry

Title

Aesthetic dentistry.

Contemporary concepts and techniques.

Abstract

The increasing evolution of adhesive systems and composite resins makes it possible to naturally and functionally restore the characteristics of anterior and posterior teeth. However, given the major technological innovations in the different composite resin systems, frequent updates are necessary to ensure the correct selection of resins with favorable optical and mechanical characteristics, which need to be used in adequate thicknesses in extremely specific regions. polish will serve to solve various situations in daily clinical practice.

Learning Objectives

- Present modern and effective strategies for aesthetic and functional restorations with composite resins.
- Discuss trends in digital treatments in dentistry.
- Present the details that make the difference in the success of restorative treatment.



2 ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Friday, May 16th

11.00am - 12.00pm

Room: Central 3

Prof. Richard Price

Category

General Restorative Dentistry

Adhesive dentistry

Title

Unlocking the Secrets of Successful Resin Curing: How to avoid costly mistakes

Abstract

Every time you use a curing light, you're determining the success of your dental restorations. Yet, how much do you understand about this crucial step in dentistry? This presentation will cover the essentials of resin polymerization, shedding light on the common pitfalls that can compromise your work.

Light curing is not just about turning on any curing light and checking that the top surface of the resin is hard. The presentation will explain how the irradiance you see on the box often doesn't tell the whole story and why real-world factors like emission spectrum, active tip size, distance, and power output can dramatically affect your dental success.

In the end, participants will have the knowledge to confidently use curing lights for better, safer, and more predictable outcomes. Whether you're a seasoned practitioner or new to the field, this course will provide practical insights and techniques that will transform how you approach buying a curing light and light-curing resins in your office.

Learning Objectives

At the end of this course, participants will:

- Understand the key terms used to describe output from a curing light.
- Assess whether their curing light meets the specific needs of their practice.
- Learn strategies to maximize the light output from their curing light.
- Gain insight into preventing costly errors during resin curing.



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Friday, May 16th

12.00pm - 1.00pm

Room: Central 3

Prof. Reinhilde Jacobs

Category

Oral Radiology

AI (Artificial Intelligence)

Title

An eye on dental AI

How the dental expert can shape the perfect AI assistant

Abstract

Dental CBCT was introduced more than 25 years ago. Apart from its immense diagnostic potential, it revolutionised the digital dental workflow, allowing for presurgical planning and image-guided treatment. Yet, software complexity and required time for such digital workflow procedures, has hampered entry in daily dental practice. Artificial Intelligence may provide a solution to considerably enhance time efficiency and consistency while maintaining a human expertise accuracy level. It may be developed based on high level dental expert input as such to allow further advancements in relation to automation for dental diagnosis and therapy. AI may thus become the perfect dental assistant.

Learning Objectives

- To understand how dental AI should be developed
- To understand when dental AI can be trusted
- To understand how dental AI might facilitate diagnosis and treatment in dental practice



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Friday, May 16th

2.30pm - 3.30pm

Room: Central 3

Prof. Reinhilde Jacobs

Category

Oral Radiology
CBCT

Title

CBCT: all you need to now

Abstract

While oral radiology is still the primary diagnostic tool in dental practice, 3D imaging via CBCT has also gained an important place in dental practice considering its diagnostic and digital workflow potentials. Today's lecture will focus on the current CBCT systems available on the market, radiation hygiene measures as well as indication for diagnosis and pre-surgical planning. Indeed, today, three out of four of all CBCTs are used for treatment planning.

Learning Objectives

- The lecture will allow to get an overview on the current CBCT systems, their advantages and drawbacks.
- The lecture will allow to learn more about diagnostic indications of CBCT.
- The lecture will allow learning more about presurgical planning indications.



1

ADA C·E·R·P®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.



Friday, May 16th

2.30pm - 3.30pm

Room: Central 3

Dr Arturo Bilbao

Category

Oral and Maxillofacial Surgery
Implant

Title

Inferior alveolar nerve damage.
Looking for a management protocol

Abstract

One of the most feared complications in ral surgery and implantology is the inferior alveolar nerve damage.

We show the clinics diagnostics.

We show the clinic, diagnosis and therapeutic possibilities, trying to establish a treatment protocol for our patients who present this postoperative complication.

Learning Objectives

- To know causes and consequences of tis complication.
- To identify the symptoms early and the evolution of the injury, in. order to decide the adequate option of treatment.
- To show the different treatment options (medical, surgical and physical)



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.



Friday, May 16th

09.00am - 10.00am

Room: Guanacaste 1

Dr Rocío Pastor

Category

Miscellaneous

Title

Reasons to Build a Strong Network

Abstract

Networking can open the door to various resources and opportunities for professionals. A solid network offers support, information, knowledge, feedback, references, and fresh perspectives.

This conference will explore three types of networks professionals should develop and common mistakes to avoid leaving a lasting impression on clients, suppliers, colleagues, and other audiences. Additionally, practical tools for effective networking will be shared.

Learning Objectives

- Recognize the value that strategic networking can bring to professional activities.
- Consider how relationships have been managed.
- Identify practical actions to enhance these relationships.





Friday, May 16th

11.00am - 12.00pm

Room: Guanacaste 1

Dr Ronald de la Cruz

Category

Orthodontics

Title

Interceptive Orthodontics in Practice: Scientific Principles and Clinical Decisions for Effective Treatment.

Abstract

Why, how and when? These are essential questions to ask when considering orthodontic treatment in the mixed dentition. Many malocclusions can benefit from simple and effective interceptive treatment. However, in the midst of current trends, we need academic education and sound science. Technology creates tools, but the research of the last 100 years is our superpower. Within the principles of craniofacial growth, we will discuss appropriate timing and indications for intervention, reviewing the latest diagnostic and therapeutic techniques available. Through clinical cases, we will address the management of arch perimeter, maxillary expansion, breathing disorders and eruption problems, in order to provide a current evidence-based approach.

Learning Objectives

- Recognize malocclusions that can benefit from simple and effective interceptive treatment, distinguishing between modern trends and practices supported by scientific evidence.
- Identify the key questions (why, how, and when) to ask when considering interceptive orthodontic treatment for their patients.
- Develop skills to clinically manage cases related to arch perimeter, maxillary expansion, breathing disorders and eruption problems, always promoting a patient-centered approach.





Friday, May 16th

1.30pm - 3.30pm



Room: Guanacaste 1

Dr Karen Olsen Murillo

Category

Young Dentist Forum

Title


In the Mouth of Stress: Mental Health for Dentists

Abstract

The transition from dental school to professional practice presents unique challenges for young dentists, the pressure to build a successful career while managing financial responsibilities, patient expectations, and maintaining work-life balance can lead to stress, anxiety, and burnout. Without proper mental health management, these challenges can negatively impact both professional performance and personal well-being.

This workshop provides young dentists with tangible strategies to not only manage stress but also optimize their professional growth, leadership skills, and career sustainability. By integrating mental resilience, practice management, and self-development techniques, attendees will gain the tools to build a thriving dental career while prioritizing their well-being.

Learning Objectives

- Development Mental Resilience
 - Recognizing Burnout Symptoms
 - Strategic Stress Management
 - Effective Decision-Making & Leadership
 - Optimizing Work-Life Balance
 - Financial & Career Growth Strategies
- 



Friday, May 16th

3.30pm - 4.30pm

Room: Guanacaste 1

Dr Mariela Padilla-Guevara

Category

Orofacial Pain

AI (Artificial Intelligence)

Title

Persistent dentoalveolar pain

Trigeminal neuropathy

Abstract

Having dental pain usually means the need to perform a procedure, but, what about those cases where the tooth does not have any pathology? Neuropathy is a change in the behavior of a nerve, and frequently, it will look too much like odontogenic pain. Another possibility is having a throbbing persistent pain, which might be a symptom of a neurovascular disorder rather than pulpalgia. This presentation explores those conditions and provides strategies to provide a proper treatment.

Learning Objectives

- Explain the mechanism of trigeminal nociception recognizing signs and symptoms of trigeminal neurogenic pain.
- Discuss the elements required to perform a clinical examination including neurological tests.
- Select treatment modalities for neuropathic , including medications, blocks, and behavioral





Friday, May 16th

09.00am - 10.00am

Room: Guanacaste 2

Dr Bruno Monguilhott Crozeta

Category

Endodontics

Title

Unlocking the Power of Ultrasonic in Endodontics
Enhancing Clinical Outcomes

Abstract

To present the main functions of ultrasonics in endodontics, highlighting its clinical applications, the reasons why it is still somewhat underutilized in the field, and the new perspectives in the specialty.

Learning Objectives

- Understand the main functions of ultrasonics in endodontics and its clinical applications.
- Identify the reasons why ultrasonics is still underutilized in endodontic practice.
- Explore new perspectives and advancements in the use of ultrasonic for treating complex cases in endodontics.





Friday, May 16th

10.00am - 11.00am

Room: Guanacaste 2

Dr Javier Caviedes

Category

Endodontics

Title

New advances in rotary instrumentation and its influence on the success of endodontics

Abstract

The management of complex clinical cases with state-of-the-art reciprocating systems raises new expectations for conventional endodontic therapy. Severe curvatures, retreatment, and complex anatomy represent a major challenge for clinical endodontics, where biomechanical preparation seeks to improve the prognosis of conventional endodontic treatment by respecting the original shape of the canal, maintaining the apical foramen in its original spatial position, controlling apical extrusion of debris, and reducing the risk of fracture of endodontic instruments.

Learning Objectives

- Analyze the characteristics of reciprocating systems and their clinical applicability.
- Apply the advantages of reciprocating systems in the management of severe curvatures, retreatment, and complex anatomies.
- Analyze how respecting the original canal anatomy, controlling the extrusion of apical debris, and reducing the risk of fracture of these instruments improve the prognosis of endodontic treatment in complex clinical situations.





Friday, May 16th

1.30pm - 3.30pm

Room: Guanacaste 2

Dr Savador García

Category

Title

Comprehensive management of patients with a gummy smile gingival

Abstract

Learning Objectives

-





Friday, May 16th

3.30pm - 4.30pm

Room: Guanacaste 2

Dr Fernando García

Category

Basic science

Antimicrobial Stewardship

Title

Development of Strategies against Antibiotic Resistance

Abstract

This presentation will discuss the following aspects of bacterial resistance to antibiotics:

- (1) Context of the national, regional, and global problems.
- (2) Pharmacological definition of the concept of resistance.
- (3) Selection pressure from antibiotic use and resistance mechanisms, highlighting those mechanisms that are not usually analyzed in laboratory tests, such as efflux pumps and biofilm formation.
- (4) The global impact of resistance.
- (5) Alternative strategies and established and emerging actions.
- (6) Ethical dilemmas related to the problem of antibiotic use and resistance.

Learning Objectives

- Contextualize the national, regional, and global problems surrounding antibiotic resistance.
- Define the main mechanisms of antibiotic resistance.
- Discuss the global consequences of antibiotic resistance.
- Analyze established and emerging alternative strategies and actions to address antibiotic resistance.
- Discuss the ethical dilemmas surrounding the problem of antibiotic use and resistance





Friday, May 16th

09.00am - 10.00am

Room: Guanacaste 3

Dr. Eraldo Pesaressi

Category

General Restorative Dentistry

Cariology

Title


Micro-invasive approaches for caries management: Sealants and Resin Infiltration
Scientific evidence and clinical protocols for successful results

Abstract

Recent developments in the area of dental materials and diagnostic systems allow dentistry to intervene earlier the caries process. Based on a recent consensus: sealants and resin infiltration are considered micro-invasive approaches to stop carious lesions limited to enamel (ICDAS 1, 2 or even 3), postponing the need of more costly and complex restorative alternatives. There is substantial evidence supporting the long-term clinical effectiveness of sealants and resin infiltration to arrest occlusal and smooth surfaces dental caries lesions, respectively. However, there are disagreements in the dental profession about when and how to intervene the carious process, specially when overestimating bite-wing radiographs findings . Conversely, patients are informed about current non-invasive or micro-invasive strategies, seeking a solution without the need for surgical operative approaches.

The objective of this lecture is to describe the etiology of dental caries, the process of enamel carious lesions and the clinical protocols to use sealants and resin infiltration for caries lesions management.

Learning Objectives

- Review the most recent consensus about management and terminology for dental caries lesions.
 - Examine the caries risk assessment principles to individualized care.
 - Analyze the in vitro and clinical evidence behind dental sealants and resin infiltration.
 - Recognize the step by step protocols to accomplish predictable clinical results.
- 



Friday, May 16th

11.00am - 12.00pm

Room: Guanacaste 3

Dr. Eraldo Pesaressi

Category

General Restorative Dentistry

Dental material

Title

Bioactive materials: Is there evidence to reduce the risk of secondary caries?


Abstract

The term “bioactivity” is frequently used in the field of oral health, yet its definition varies significantly depending on context. Bioactivity refers to the ability to induce a biological effect on living organisms, tissues, or cells. However, a key question arises: Is eliciting a biological response a necessary criterion for a material to be considered bioactive? Furthermore, how should we define a biological response?

Initially, attention focused on materials that could form an apatite-like mineral in environments such as simulated body fluid. In the literature, bioactive materials are often described in a variety of contexts, such as promoting bone or tooth mineralization, stimulating the recruitment and differentiation of cells, or exerting effects like antimicrobial activity, pH buffering capacity, or biofilm modulation. However, it remains unclear whether these effects truly represent bioactivity, or if they are a mere result of chemical interactions.

In the dental materials community, there are many manufacturers that claim their products possess bioactive potential, but the evidence is contrasting.

Learning Objectives

- Describe the etiology of dental caries and secondary caries risk
 - Review the principles behind the 'repetitive restorative cycle'
 - Analyze the concept of 'bioactive materials' and determine if there is supporting evidence
 - Compare and contrast the chemical elements available in some restorative materials and their potential interactions with the dental structure or biofilms.
- 



Friday, May 16th

12.00pm - 1.00pm

Room: Guanacaste 3

Dr. Jorge Casian

Category

Paedodontics

Title

Molar Incisor Hypomineralization, from science to practice

Molar hypomineralization diagnosis and treatment alternatives

Abstract

In this presentation we will learn the diagnostic criteria for MIH, etiology and treatment alternatives for both the molar and the hypomineralized incisor, applying concepts with high clinical evidence in daily practice.

Learning Objectives

- Learn to properly diagnose hypomineralization of molars and incisors.
- Know how to classify MIH lesions according to their severity and their relationship with the choice of treatment.
- Learn the management of dental hypersensitivity caused by MIH.
- Know the restorative and non-restorative treatment alternatives for MIH





Friday, May 16th

2.30pm - 3.30pm

Room: Guanacaste 3

Dr Adrián Gómez

Category

Paedodontics

Minimal Invasion


Title

Minimal Intervention in Pediatric Dentistry: Educating for Prevention and Treatment with Bioactive Materials

Abstract

Minimal intervention in pediatric dentistry emphasizes preserving healthy tooth structure, focusing on preventive care, patient education, and minimally invasive treatments. This approach is reshaping the landscape of pediatric dental care by empowering both patients and clinicians to prioritize prevention over restoration. The integration of bioactive materials plays a crucial role in this philosophy, aiding in remineralization and enhancing the natural defense mechanisms of teeth. This presentation will cover the principles of minimal intervention, highlighting how early education and prevention can reduce the need for invasive treatments. Attendees will learn about innovative treatment options using bioactive materials, such as glass ionomers, that support natural tooth repair. The role of patient education in fostering long-term oral health habits will also be emphasized, alongside practical strategies for integrating minimal intervention approaches into clinical practice. This talk aims to demonstrate how a shift towards minimal intervention not only improves patient outcomes but also leads to more sustainable and child-friendly dental care.

Learning Objectives

- Understand the core principles of minimal intervention in pediatric dentistry, focusing on the importance of preserving natural tooth structure and promoting preventive care.
 - Explore the role of bioactive materials in minimally invasive treatments, highlighting how these materials promote tooth remineralization and support non-invasive approaches to caries management.
 - Learn effective strategies for patient education that empower children and parents to adopt preventive measures and long-term oral health habits, reducing the need for restorative procedures.
 - Examine the use of preventive techniques and interventions in pediatric dentistry, such as fluoride therapy, sealants, and early detection tools that align with the philosophy of minimal intervention.
 - Analyze case studies demonstrating successful applications of minimal intervention approaches, including the integration of bioactive materials and preventive strategies in pediatric clinical settings.
- 



Friday, May 16th

3.30pm - 4.30pm

Room: Guanacaste 3

Dr Silvia Gudiño, Dr Jorge Casian and Dr Adrián Gómez

Category

Pedodonthics Symposium


Title

Dental Caries vs. Enamel Defects in Pediatric Dentistry: Diagnostic Approaches
Keys to Differential Diagnosis and Treatment of Enamel Defects in Childhood

Abstract

Differentiating between enamel defects and dental caries is a critical topic in pediatric dentistry due to their similar clinical presentations. This session will address the key clinical characteristics and etiological factors that help distinguish these conditions and discuss the implications of accurate diagnosis for effective management, improved prognosis, and prevention of complications. Attendees will also learn about educational strategies to enhance the diagnostic and treatment skills of pediatric dentists and dental students. Finally, the session will delve into treatment approaches tailored to each condition, focusing on minimally invasive techniques and long-term management strategies to ensure optimal patient outcomes.

Learning Objectives

- Identify the clinical characteristics that differentiate enamel defects from dental caries in children, including etiological factors and typical presentations.
 - Evaluate the implications of an accurate diagnosis for clinical management, prognosis, and prevention of complications in pediatric patients.
 - Propose educational strategies for pediatric dentists and dental students to strengthen their skills in the differential diagnosis and treatment of both conditions.
 - Analyze treatment approaches tailored to enamel defects and dental caries, focusing on minimally invasive techniques and long-term management strategies.
- 

Saturday, May 17th

09.00am - 10.00am

Room: Central 1

Dr Domenick Zero

Category

General Restorative Dentistry
Cariology

Title

A deep dive into fluoride: benefits and risks
Update on fluoride considering recent safety concerns.

Abstract

Fluoride is well-established as the most effective and most widely used approach for preventing dental caries. Understanding how fluoride works provides the basis for strategies to optimize its benefits for patients and the public. Fluoride is effective all stages of the caries process: primary caries prevention (preventing caries before it manifests clinically); secondary caries prevention (arrest or reverse caries progression at the non-cavitated lesion stage); and tertiary caries prevention (decreasing the impact of the cavitation stage of caries by preventing further hard tissue destruction, pulpal involvement and tooth loss). A wide range of fluoride products are available that differ in type of fluoride agent (NaF, MFP, SnF₂, amine fluoride, APF, SDF), fluoride concentration (100 – 44,800 ppm F), delivery vehicle (paste, gel, foam, liquid, varnish), delivery method (brushing, rinsing, trays, applicators), and frequency of delivery (multiple Xs daily – yearly). Decisions on professionally applied and home use fluoride need to be based on the best scientific evidence, the patient's caries risk status, the benefits and risks of fluoride, and the patient's preferences.

Learning Objectives

- Describe the mechanisms of how fluoride prevents caries initiation and progression.
- Describe the strategies to optimize the benefits of fluoride and minimize the risks.
- Describe the evidence-based approaches for fluoride use in high caries risk patients.



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.

Saturday, May 17th

11.00am - 12.00pm

Room: Central 1

Dr Alexis Tessler

Category

General Restorative Dentistry - Preventive dentistry

Title

Diagnosis and Management of Impacted Canines

Abstract

Impacted canines present a common yet complex challenge in dental practice, often requiring multidisciplinary approaches for effective diagnosis and treatment. This lecture explores the clinical significance of impacted canines, with a focus on early identification, accurate diagnostic methods, and evidence-based management strategies.

Key topics include the etiology and prevalence of canine impaction, the role of clinical and radiographic examinations (including advanced imaging techniques like CBCT) in determining the position and orientation of the impacted teeth, and how to predict potential complications. Early intervention strategies, such as interceptive orthodontics and space management, will be discussed in detail. Surgical exposure techniques, orthodontic traction, and considerations for extraction versus retention are also covered, highlighting factors influencing treatment choice and outcomes.

Special emphasis will be placed on collaboration between orthodontists, oral surgeons, and general dentists to optimize treatment planning. Participants will gain insights into minimizing risks, managing patient expectations, and achieving functional and aesthetic outcomes.

Learning Objectives

- Through case presentations and discussion of the latest advancements in treatment protocols, this lecture aims to equip practitioners with practical tools for managing impacted canines effectively, enhancing patient care and clinical success.
- Through case presentations and discussion of the latest advancements in treatment protocols, this lecture aims to equip practitioners with practical tools for managing impacted canines effectively, enhancing patient care and clinical success.
- Through case presentations and discussion of the latest advancements in treatment protocols, this lecture aims to equip practitioners with practical tools for managing impacted canines effectively, enhancing patient care and clinical success.



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.

Saturday, May 17th

1.30pm - 2.30pm

Room: Central 1

Dr Domenick Zero

Category

General Restorative Dentistry
Cariology

Title

Management of the High Caries Risk Patient
High Caries Risk Patient

Abstract

While some individuals have a low caries experience over their life course, caries remains a consequential and costly health problem for many patients. The key features of the caries process - multifactorial etiology, site-specificity, and time-dependent dynamic disease modified by protective factors - will be reviewed in relationship to the high caries risk patient. Nighttime baby bottle use, orthodontic treatment, head and neck radiation treatment, Sjögren's disease and high sugar intake are all associated with increased caries. High risk caries management involves detecting caries at an early (non-cavitated) stage, assessing caries lesion activity, identifying the patient's caries risk factors/indicators, and determining the appropriate risk-based level of primary, secondary, and tertiary caries prevention/control, as well as recall frequency. The goal of the dental profession should be that dental caries never progresses beyond the moderate caries stage for patients who routinely seek dental care.

Learning Objectives

- Differentiate between an active and an inactive caries lesion
- List five factor that increase the caries risk of a patient.
- Discuss how the caries status of a patient (caries active vs. caries inactive) and caries risk factors are involved in the development of preventive and restorative intervention strategies.
- List the three main approaches that can be used to prevent dental caries in high risk patients and rank them for their effectiveness based on current scientific evidence.



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.

Saturday, May 17th

2.30pm - 3.30pm

Room: Central 1

Dr Donald Nixdorf

Category

Orofacial Pain

TMD

Title

Simple and very effective tips to diagnosing and treating patients with TMD

Abstract

Dentists often report that they do not feel confident in their understanding of TMD, leaving them unsure how to act. This translated into hesitance in explaining the condition to patients, diagnosing them, and also providing treatment. There is a lot of research-based evidence about TMD that can be made simple and understandable. This lecture covers the basics of TMD and gives every dentist the necessary knowledge to care for their patients with TMD.

Learning Objectives

- Know how to diagnose TMD
- Understand the evidence-based approach to treating TMD
- Describe the initial steps in discussing TMD with patients



1

ADA CER-P®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CER-P Recognized Provider. ADA CER-P is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CER-P does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.



Saturday, May 17th

3.30pm - 4.30pm

Room: Central 1

Dr Alexis Tessler

Category

General Restorative Dentistry

Title

Simple and very effective tips to diagnosing and treating patients with TMD

Abstract

Dentists often report that they do not feel confident in their understanding of TMD, leaving them unsure how to act. This translated into hesitance in explaining the condition to patients, diagnosing them, and also providing treatment. There is a lot of research-based evidence about TMD that can be made simple and understandable. This lecture covers the basics of TMD and gives every dentist the necessary knowledge to care for their patients with TMD.

Learning Objectives

- Know how to diagnose TMD
- Understand the evidence-based approach to treating TMD
- Describe the initial steps in discussing TMD with patients



FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

09.00am - 10.00am

Room: Central 2

Dr Brian Murdoch

Category

Orthodontics

Aesthetic dentistry


Title

Restorative Dentistry. Orthodontics Approach in Interdisciplinary Treatment

Abstract

Interdisciplinary Work is essential for modern dentistry. Solving health problems is not only the objectives of treatment. Taking into account the aesthetic results of color and dental proportion, and the appropriate gingival parameters is also a priority. Through clinical cases I will show the conjunction between Orthodontics and Pink and White Aesthetics.

Learning Objectives

- Visualize the objectives of Dental Restoration in Relation to Orthodontic Treatment.
 - Know the different orthodontics movements to improve the position of the teeth and thus be able to solve them using restorative dentistry in a minimally invasive way.
 - Know How to interpret the parameters of Smile to achieve excellent health and aesthetics somatological system
- 



Saturday, May 17th

11.00am - 12.00pm

Room: Central 2

Dr Beatriz Aldape

Category

Oral pathology

Title

Diagnosis in oral pathology

Clinical diagnosis of oral pathology

Abstract

The lecture is about all the oral pathology. We can see in a clinical office with the use of imaging and laboratories, biopsy and histopathological diagnosis is important to all the dentist formation to know all the possibilities of clinical diagnosis because we can do a wrong diagnosis.

Learning Objectives

- Identify & learning


All the clinical pathology by color, form, location, size, base, etc. From normal variation, Infectious diseases, Odontogenic and cyst and tumours, Oral cancer, Metastasis, Pediatric pathology

- Oral medicine

Diagnosis from lichen planus, leukoplakia and autoimmune pathology diagnosis biopsy and histopathology diagnosis

- Imaging

All the diagnosis in tc, cone beam, mri, ultrasound, pet We can use all the necessary for do a better diagnosis





Saturday, May 17th

1.30pm - 3.00pm

Room: Central 2

Dr Brian Murdoch

Category

Orthodontics

Periodontitis

Title

Vertical Bone Limit. Treatments in Severe Periodontal Patients

Diagnostic, Planning and treatment mechanics

Abstract

The purpose of the conference is to show, through clinical case with a minimum follow-up of 20 year, the evolution of patients with the severe periodontal disease. To explain the diagnosis and treatment objectives, differentiating conventional treatments. Also to understand the differences in planning and execution of treatment, showing the mechanics of the same. To talk about the importance of check-ups with the periodontist, to long-term success.

Learning Objectives

- Know how solve Orthodontics Treatments in patients with 2 or 3 millimeters of bone support in periodontal patients.
- Be clear about the treatment objectives in patients with reduced periodontium
- Application and control of the Orthodontic forces used. Control of the centre of resistance and rotation of the teeth.





Saturday, May 17th

3.00pm - 4.30pm

Room: Central 2

Dr Beatriz Aldape

Category

Oral pathology

Title

Oral cancer clinical diagnosis


The clinical presentation of oral cancer is very varied is important to do the early diagnosis

Abstract

we beginning from the normal appearances in the mouth true the changes from leukoplakia or eritroplakia, ulcer, growth, etc.

the etiological factors what we can control and the education for all the population to do prevention this issue I think is the most important thing we can learn in a lecture about cancer.

Learning Objectives

- I have cases with the radical surgery to demonstrate the importance of do a inicial diagnosis before the patient is mutilated and carry out prevention campaign first in the family and friends.
 - The etiology like smoke and drinking anything is a promoter to have oral cancer all the etiology factors can be discuss.
 - I only speak a few words about the histopathological aspect of the transition of the normal to cancer to understand the biological behaviour and the treatment for each case.
- 



Saturday, May 17th

09.00am - 10.00am

Room: Central 3

Dr Filippo Cardinali

Category

Endodontics

Root canal instrumentation

Title

Preventing and managing iatrogenic misshapes during the shaping of the root canal system

How to get a shaping respectful of the original endodontic anatomy and how to manage ledge

Abstract

During the shaping, the original anatomy respect allows preparing the canal saving radicular dentine, creating an ideal shape for a deep cleaning and a three- dimensional obturation. The execution of shapes that fit and meet the original anatomy decreases the risk of creating alterations of the root canal itself, such as ledges or transport, regarded by the international scientific literature as factors leading to the failure of the therapy. Aim of the lecture is to highlight how the knowledge of the shaping techniques are more important than the rotary files, sharing protocols and tips to manage even iatrogenic mishapes once created.

Learning Objectives

- Recognize and comprehend the importance of the shaping techniques to respect the endodontic anatomy during the shaping.
- Comprehend that the creation of iatrogenic canal alteration for a misuse of Rotary File leads to a negative outcome of the therapy.
- Understand how to prevent iatrogenic root canal alterations during the shaping and how to manage them once created.



1 ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

10.00am - 11.00am

Room: Central 3

Prof Josette Camilleri

Category

Endodontics

Dental material

Title

Vital pulp therapy - an update of latest clinical protocols

Abstract

Traditionally calcium hydroxide has been used as a pulp capping material and dentine replacement was performed using glass ionomers or other materials to replace the dentine in bulk. The main shortcoming with the use of calcium hydroxide as pulp capping material is the material inherent weakness and solubility. The material is water-based and thus it cannot be etched and bonded making restoration with resin composites difficult. Newer materials have been developed which are either resin-based and thus light curable or water-based with enhanced characteristics. These materials are easier to use and are can potentially replace the calcium hydroxide as a pulp capping material. This lecture will look at the classical pulp capping methodology and the newer hydraulic calcium silicate cements used for pulp capping.

Learning Objectives

- Update on new materials on the market
- Learn on the effectiveness of these materials for indicated procedures
- Learn on the choice of restorative materials to layer the pulp capping materials



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

11.00am - 12.00pm

Room: Central 3

Dr Filippo Cardinali

Category

Endodontics - Root canal obturation

Title

Obturation for Patient-centered endodontic outcomes

understanding materials and protocols of the WVC and CHC with Bioceramic Sealer

Abstract

The obturation of the root canal system is a very important step of the root canal system in order to achieve a positive outcome of the therapy; as a matter of fact an high percentage of the endodontic failures are associated with incomplete root canal obturation.

Bioceramic sealers represent a real game changer in Endodontics: thanks to their properties it is possibile to rely on a sealer centered obturation, moving from warm to cold obturation techniques, getting an high quality obturation. To get the benefits of the Bioceramic sealers, the clinician do know their features, the limits of use and when there is a strong indication to their use. Aim of the lecture is to analyze all the features of the sealer to understand how to use it properly in order to get in the clinical practice all the benefits of this sealer. Aim of the lecture is even is to share with the participants detailed protocols and tips to get repeatable high quality obturation in the daily practice to improve long-term patient-centred endodontic outcomes.

Learning Objectives

- Understand the importance of the knowledge of protocols and materials to get repeatable high quality obturation in the daily practice.
- Improve the ability to control the overfilling during the obturation.
- Understand the importance of a high quality obturation for the outcome of the treatment
- Understand the proper way to use the bioceramic sealer in order to get all the related benefits
- Understand the quality level and Outcome of the Cold Hydraulic Condensation with the Bioceramic Sealer



1

ADA CERP®

Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

12.00pm - 1.00pm

Room: Central 3

Prof Josette Camilleri

Category

Endodontics

Dental material

Title

Root canal obturation - Let's keep it simple

Abstract

The purpose of root canal obturation is to prevent infection or re-infection of the root canal space; thus allowing the root treated tooth to remain as a functional unit in the dentition. For many years root canal obturation techniques and materials were studied by assessing the micro-leakage using various in vitro methods. A 'hermetic' seal was considered to be necessary for a success root canal treatment outcome. However, in vitro assessment methods are no longer considered valid due to the unreliability of the resultant data and the lack of correlation to the clinical scenario. There have been several developments with regard to root canal obturation techniques and materials, introduced with the aim of achieving improved quality root fillings and a better clinical outcome. In this presentation, root canal obturation techniques and materials will be discussed with an emphasis on their benefits and shortcomings and with the view of highlighting areas of development.

Learning Objectives

- Understand the different obturation techniques
- Learn about the effect of irrigation on the dentine substrate and be able to link the obturation to the irrigation strategy
- Understand material properties in the clinical context



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

2.30pm - 3.30pm

Room: Central 3

Prof Shanon Pattel

Category

Endodontics

Root canal irrigation

Title

Improving success rates in Endodontics

Abstract

Despite the technological advancements in Endodontics, the success rates have not improved significantly.

The aim of this presentation is to demonstrate how to improve success rates in Endodontics by making subtle adjustments to the endodontic workflow.

Learning Objectives

- Discuss the limitations of current evidence in assessing the outcome of endodontic treatment
- Appreciate the impact of nosocomial infection in endodontic treatment
- How to implement changes in the daily work flow to improve success rate



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

3.30pm - 4.30pm

Room: Central 3

Prof Shanon Pattel

Category

Endodontics

Dental Trauma

Title

An update on External Cervical Resorption

Abstract

The prevalence of External Cervical Resorption (ECR) appears to be increasing, the diagnosis and management of ECR can be confusing.

The aim of this presentation is to provide an update on ECR with the help of cutting edge clinical research. New cutting edge research will be presented.

Learning Objectives

- Understand how to diagnose ECR
- Recognise the importance of CBCT in the diagnosis & management of ECR
- Appreciate the different treatment options for ECR



1

ADA CERP®
Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

4.30pm - 5.30pm

Room: Central 3

Dr Donald Nixdorf

Category

Orofacial Pain

Pain management

Title

Demystifying pain & root canal treatment

Updates on what is new

Abstract

When a patient call reporting severe pain after treatment, or persistent pain, it can be disruptive to a practitioner's schedule and psyche. This session will give practitioners information on the frequency and predictors for pain following root canal treatment. Practitioners will also learn about contributing factors for acute and persistent pain, and strategies for managing pain.

Learning Objectives

- Understand the diagnoses related to the presentation persistent pain following root canal treatment, as well as the key clinical components needed to differentiate them.
- Discuss contributing factors for severe acute and persistent pain following root canal treatment, which can be gathered before care and discussed with patients during the consenting process.
- Discuss strategies for managing pain following root canal treatment, which includes pre-medication through to post-operative care.



1

ADA CERP®

Continuing Education Recognition Program

FDI World Dental Federation is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. FDI World Dental Federation designates as follow:

each session of 1h is worth a maximum 1 credit.

Only the sessions held in the rooms Central 1 and Central 3 are eligible for credits, as indicated on the final scientific programme.





Saturday, May 17th

09.00am - 10.00am

Room: Guanacaste 1

Dr Lucía Fallas & Dr. Georgina Pacheco

Category

Forensic Dentistry

Title

The scope of dentistry and forensic anthropology in criminal investigation in Costa Rica.

Abstract


In Costa Rica, forensic dentistry and forensic anthropology are two growing disciplines that collaborate, among other things, in solving criminal cases. Together, they can provide complementary information, especially when fingerprints or DNA are not available.

Forensic dentistry plays a fundamental role in identifying individuals, particularly when human remains are charred or in an advanced state of decomposition. Using antemortem information from dental records, X-rays, and photographs, individualizing characteristics are obtained to compare with postmortem information. This is done in both criminal contexts and in cases of disasters, plane crashes, etc.

On the other hand, forensic anthropology contributes through the analysis of bone remains, and it is through their study that they can help determine the sex, age, height, and ethnicity of an individual, as well as identify signs of trauma. Their ability to reconstruct biological profiles from skeletal remains is crucial for solving cases of disappearances and assisting in criminal investigations.

This lecture will be given by the only two professionals working for the judicial system of our country.

Learning Objectives

- Analyze the complementary role of forensic dentistry and forensic anthropology in solving criminal cases in Costa Rica, highlighting their contributions in the identification of individuals and the analysis of human remains.
 - Examine the challenges and scope of forensic dentistry and forensic anthropology in the current context of the Costa Rican judicial system, emphasizing the importance of collaboration between both disciplines to solve criminal cases and disaster situation
 - Highlight the need for proper dental records in the dental field, both in the public and private sectors, as an essential tool for forensic work in the identification of individuals and the resolution of criminal investigations.
- 



Saturday, May 17th

11.00am - 12.00pm

Room: Guanacaste 1

Dr Mauricio Fonseca

Category

Oral and Maxillofacial Surgery
Orthognathic

Title


A facial Approach to the correction of Dentoskeletal Deformities, the demand for higher aesthetics.

Abstract

Traditional orthognathic surgery has been focused on correction of dentoskeletal malocclusions, but has evolved into a myriad of aesthetic components related to patient expectations and overall evolution of the technique. The advancement on dental aligner therapy also increases comfort and aesthetics for patients preparing for orthognathic surgery. Complementary surgical procedures such as fat transfer, tissue resuspension, rhinoplasty, etc. have been extensively described as a part of the surgical array for treatment of dentoskeletal deformities, evolving the overall treatment to a more facial oriented approach.

We aim to present the evolution of our technique, incorporating diverse surgical procedures to increase overall facial balance, our experience with aligner surgical oriented therapy and results achieved utilizing this approach. A combination of orthognathic surgery and implant therapy for elderly patients with skeletal deformities is also presented.

Learning Objectives

- Facially Driven orthognathic surgery
 - Orthofacial surgery in the edentulous patients
 - Aligner therapy for surgical orthodontic preparation
 - Adjunct surgical techniques to improve facial balance and aesthetics in orthognathic surgery.
- 



Saturday, May 17th

12.00pm - 1.00pm

Room: Guanacaste 1

Dr Gustavo Vargas

Category

Oral and Maxillofacial Surgery

Oral cancer

Title

Treatment of head and neck tumors and maxillofacial reconstruction

Multidisciplinary approach to treat head and neck tumors and maxillofacial reconstruction

Abstract


This conference includes helpful information about early diagnosis of oral cancer and maxillofacial tumors and different oral pathology and the work up for staging and developing a treatment plan.

The state of the art of treatment of these oral and maxillofacial tumors are shown and discussed.

The value of adding multiple medical and dental disciplines are emphasized and promoted to improve the survival rates, adequate rehabilitation and quality of life of these patients.

Modern techniques of oral and maxillofacial reconstructive surgery including tissue transfer, microsurgery, tissue grafts, regenerative medicine and dental rehabilitation are presented.

Learning Objectives

- Learning about the value of early detection of oral cancer. Reaffirming the diagnostic protocols including recognition of premalignant lesions and clinical oral cancer screening, the proper use of radiological imaging, the value of the biopsy and the impor
 - Promoting interdisciplinary approach for the diagnosis and treatment of oral, head and neck and maxillofacial tumors and explaining the importance of a responsible management to improve the chances of survival, and enhance the quality of life of these pat
 - Showing advanced surgical techniques including tissue transfer, microsurgery, tissue grafts, regenerative medicine for oral and maxillofacial reconstruction.
- 



Saturday, May 17th

2.30pm - 4.30pm

Room: Guanacaste 1

Dr Jorge Oviedo, Dr Alberto Polanco, Dr Cristina Castro, Dr Sylvia Azuola and Dr Gabriela Sáenz

Category

Symposium

Title


Interdisciplinary approach

Transforming lives with teamwork: Amazing outcomes in cleft lip and palate care!

Abstract

Cleft lip and palate (CLP) is a complex craniofacial condition that requires an interdisciplinary approach to achieve optimal functional, aesthetic, and psychosocial outcomes. This symposium will bring together experts from various dentistry disciplines, including oral and maxillofacial surgery, orthodontics and pediatric dentistry to discuss the latest advancements in the comprehensive management of CLP patients. They represent the National Children's Hospital team, which has been developing a fantastic CLP Program in Costa Rica for decades. Through case-based discussions, evidence-based protocols, and emerging technologies, attendees will better understand the collaborative efforts necessary for successful treatment planning and long-term patient care.

Learning Objectives

- Recognize the role of different specialties in the diagnosis, treatment, and follow-up of cleft lip and palate patients.
 - Examine current evidence-based protocols for surgical, orthodontic, and pediatric interventions at various developmental stages in the treatment of patients with cleft lip and palate.
 - Develop strategies for effective communication and teamwork among healthcare professionals to optimize patient outcomes.
- 



Saturday, May 17th

9.00am - 10.00am

Room: Guanacaste 2

Dr Fabián Rosero

Category

Periodontics

Title

Avances en implantología digital y su relación con la impresión 3d / Advances in digital implantology

Abstract

Advances in digital implantology

Software guided planning

Using CBCT (cone beam computed tomography) to obtain accurate 3D models of the patient's bone and tissues.

CAD/CAM software to design optimal implant placement.

Guided surgery ⚙️

Creation of 3D printed surgical splints that guide exact implant placement.

Less margin of error and safer and faster surgeries.

Immediate loading

With the precision of digital design, it is possible to place a temporary prosthesis on the same day of surgery.

Advanced biomaterials 🦴

Use of 3D printing compatible materials to create custom bone structures and tissues.

Learning Objectives

- Understand the fundamentals of digital implantology

History, evolution and benefits compared to conventional implantology.

Principles of digital diagnosis (CBCT, intraoral scanning, CAD/CAM planning).

- Learn the digital workflow

Use of software for implant planning.

Integration of CBCT images with intraoral scans.

Design and manufacturing of prostheses using digital technology.

- Types of printers and materials used in dentistry.

Design and manufacturing of personalized surgical splints.

Creation of anatomical models and prostheses with 3D printing.

Perform guided surgery procedure





Saturday, May 17th

11.00am - 1.00pm

Room: Guanacaste 2

Mr Massimo Manzi

Category

Miscellaneous

Public Programmes


Title

Dental tourism 101. Challenges, opportunities and success stories

Abstract

The possibility to attract foreign patients became not only an opportunity but also something mandatory considering the challenge to increase local practices. Several countries in Latin America have developed official programs to help hospitals and dental offices improving their medical and dental tourism business plans. Building a successful international program requires an understanding of the opportunities to attract patients from countries such as Canada and the United States but also the requirements of those markets in terms of service, safety, compliance with international regulations, etc. Costa Rica has been a leader in this activity thanks to its early programs in the 70' and to the role of the Costa Rica Health Chamber (before named Council for International Promotion of Costa Rica Medicine - PROMED) as the organization that has been working to strengthening the leadership of Costa Rica as medical and dental tourism destination. Definitions, global trends, market opportunities for dental offices in Latin America, best practices and recommendations from successful doctors will be part of the presentation.

Learning Objectives

- Understanding what is medical and dental tourism
 - Learning about the opportunities for my clinic
 - Information about how to build a successful dental tourism practice
 - Listening to successful stories of Costa Rican dentists and how they achieved to build an international program
- 



Saturday, May 17th

2.30pm - 4.30pm

Room: Guanacaste 2

Dr Nydia Amador, Dr Jeancarlo Córdoba and Dr Sofía Castro

Category

Symposium

Public Health

Title

Beyond the smoke: the impact of vaping on health, an interdisciplinary approach

Abstract

The increasing prevalence of vaping has raised concerns about its impact on health. While often perceived as a safer alternative to traditional smoking, growing evidence suggests significant risks associated with its use. This fórum brings together medical and dental professionals to explore the multifaceted effects of vaping. Through an interdisciplinary perspective, experts will discuss the implications for oral and systemic health, the latest scientific findings, and prevention and patient education strategies. This event aims to provide healthcare professionals, particularly dentists, with the knowledge and tools needed to address vaping-related health concerns in their practice.

Learning Objectives

- Understand the physiological and pathological effects of vaping on oral and systemic health.
- Explore the various vaping devices to enhance the participants' knowledge.
- Recognize the clinical signs of vaping-related oral conditions and their implications for dental care.
- Discuss interdisciplinary strategies for prevention, early detection, and patient counseling.





Saturday, May 17th

09.00am - 10.00am

Room: Guanacaste 3

Dr Mariela Padilla-Guevara

Category

Orofacial Pain

Pain management

Title

Customizing pain management according to the patient's individual needs

Orofacial pain management

Abstract

Each individual possesses a unique combination of biological, social, economic, emotional, cultural, and environmental factors, making the management of pain a personalized process. This presentation focuses on the elements to consider for effective pain relief tailored to each person's specific needs. From prevention to ongoing management, we will explore behavioral techniques, pharmacological treatments, and various procedures or interventions.

Learning Objectives

- To discuss the pain mechanisms and how individual characteristics impact the way the patient experiences and handles pain sensation and management.
- To explore customizable approaches for orofacial pain management, including behavioral, pharmacological, and interventional approaches.
- To solve simulated orofacial pain cases using predictive models based on description and symptoms, using algorithms and artificial intelligence.





Saturday, May 17th

11.00am - 1.00pm

Room: Guanacaste 3

Ligia Madrigal, Cristina Barboza, Cristina Masis and Antonieta Muñoz

Category

Women Forum

Title

Leadership with a woman's vision

Abstract

Learning Objectives





Saturday, May 17th

2.30pm - 3.30pm

Room: Guanacaste 3

Dr Monica Fumero

Category

Miscellaneous

Title


Beyond the White Coat: Reclaiming Your Identity from Your Dental Career

A Wake-Up Call for Dental Professionals: Embracing Your Whole Self Beyond Your Work

Abstract

When dentistry becomes not just a career but the entirety of one's identity, personal well-being and happiness can suffer. This session will offer a reflective journey for dental professionals to examine the effects of career enmeshment and the ways it can unintentionally limit one's sense of self. Through self-awareness exercises and boundary-setting techniques, attendees will learn how to strike a healthy balance, rediscover personal passions, and develop a sense of identity that extends beyond the practice. This talk is a call to embrace all facets of life, nurturing both personal and professional fulfillment for a sustainable and joyful career in dentistry.

Learning Objectives

- Understand the concept of career enmeshment and recognize its impact on personal well-being.
 - Reflect on personal boundaries and learn strategies for creating a healthy separation between professional and personal identity.
 - Develop habits that nurture a balanced life and support long-term fulfillment beyond professional success.
- 



Saturday, May 17th

3.30pm - 4.30pm

Room: Guanacaste 3

Dr Monica Fumero

Category

Miscellaneous

Leadership

Title

Unlocking the Potential of AI in Dentistry

Transforming Dental Practice through AI: Practical Applications and Considerations for Dental Professionals

Abstract

This session delves into the dynamic role of AI in modern dentistry, from providing clinical support to enhancing business leadership. With applications such as creating customized treatment plans, generating clear patient cost estimates, and offering educational resources, AI can significantly streamline clinical tasks and improve patient understanding. On the business side, AI offers efficient solutions for automating appointments, handling common inquiries, and even driving patient engagement through personalized marketing content.

While the benefits of AI are substantial, a responsible approach is essential. We will discuss the limitations of AI in clinical settings, particularly regarding accuracy, ethical concerns, and data privacy requirements. Attendees will leave equipped with knowledge on implementing AI responsibly to enhance both patient care and operational efficiency within their dental practices.

Learning Objectives

- Explore how AI can enhance clinical workflows, from treatment planning to patient education.
 - Identify how AI supports dental business leadership by improving administrative efficiency and marketing outreach.
 - Understand the limitations and ethical considerations of using AI in dental practice, including data privacy and regulatory compliance
- 