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CHALLENGING THE MASTERS



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ORAL BONE AND SOFT TISSUE GRAFTING SYMPOSIUM

Join us on 29 - 30th November in Vienna for cutting-edge facts on grafting surgery



Special guest: Reinhard Gruber

SYMPOSIUM Nov 30th

- **Opening Session:** "Technical Expertise, Experience and Skilled Execution"
All Speakers - Moderator: Tino Bonaccorsi
- **Istvan Urban:** My Perspectives on Vertical And Horizontal Augmentation
- **Rino Burkhardt:** How to Enhance Performance in Periodontal and Peri-implant Mucosal Surgery?
- **Juraj Brozović:** The Invisible Things in Defect Repairs and Aesthetic Grafts
- **Reinhard Gruber:** Osseointegration: Clinical Relevance of Biological Principles
- Take-Home Facts: **Q&A**
- Meet & Greet **Evening Event**

HANDS-ON DAY Nov 29th

MASTERING THE CHALLENGE

JURAJ BROZOVIĆ AND THE TEAM

- **STATE OF THE ART GRAFT CLOSURE: THE SIX-ZERO STANDARD**
Leaving the Comfort Zone to Step-Up Your Suturing Game
- **PERIOSTEAL RELEASE DONE RIGHT: EXTREME FLAP ADVANCEMENT**
The Point of No-Return for Flap Management in Bone Grafting

SAVE THE DATES

29th November - Workshops
30th November - Symposium

SYMPOSIUM VENUE

Imperial Riding School, Autograph Collection
Ungargasse 60, Vienna

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Prof. Istvan Urban, DMD, MD, PhD
Specialist in Oral Surgery

Dr. Urban received his DMD degree and subsequently his MD degree from Semmelweis University School of Medicine and Dentistry (Budapest, Hungary) in 1991 and 1996. He completed a full-time program in oral surgery at St. Istvan Hospital in Budapest, Hungary (1992-1996). He completed his internship program in Periodotics at UCLA. After he graduated from the Fellowship Program (1999-2000) in Implant Dentistry at Loma Linda University in Loma Linda, California, he was appointed assistant professor the following year. Dr. Urban is licensed in the state of California (USA) and has a private practice in Budapest, Hungary. Dr. Urban received his PhD degree in Periodontology in 2012 at the University of Szeged, Hungary. He is currently an honorary professor at the University of Szeged. Dr. Urban is a board member of the Osteology Foundation and has published scientific articles and textbook chapters on bone regeneration and soft tissue reconstructive surgery around dental implants. Dr. Urban is an adjunct clinical associate professor at the Department of Periodontology and Oral Medicine at the University of Michigan. Recently, Dr. Urban has become a lecturer at Harvard School of Dental Medicine. Dr. Urban is the author of the textbook titled Vertical and Horizontal Augmentation published by Quintessence, which has been published in 12 languages. Dr. Urban recently authored the second part of the book titled VERTICAL 2: The NEXT LEVEL.

ISTVAN URBAN

My Perspectives on Vertical and Horizontal 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.

LEARNING OBJECTIVES



- 1. Understand the surgical anatomy of the floor of the mouth**
- 2. Learn the surgical principles of ridge augmentation surgery**
- 3. Learn the tension free closure of the flaps after vertical ridge augmentation**
- 4. Learn soft tissue reconstructions after ridge augmentation**

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Prof. Rino Burkhardt, DMD, PhD
Specialist in Periodontology

Rino Burkhardt graduated from the University of Zurich and received his doctorate from the Medical Faculty of the same University. He is an EFP (European Federation of Periodontology) and SSP (Swiss Society of Periodontology) board certified specialist in periodontology and received his Masters degree from the Medical Faculty of the University of Berne (MAS in Periodontology). In 2004 he won a prize from the European Federation of Periodontology for his research in microsurgery. Since 1996 he runs a private clinic in Zurich, limited to periodontology and implantology. Currently, he is the vice president of the Clinical Research Foundation for the Promotion of Oral Health and holds an honorary professorship at the University of Hong Kong and a visiting professorship at the University of Michigan. Besides his clinical activities he is an associate professor and scientific collaborator at the University of Zurich. He is an active member of the Swiss Society of Periodontology (SSP), the European Academy of Esthetic Dentistry (EAED), the European Association for Osseointegration (EAO), and former president of the Swiss Society of Implantology (SGI).

RINO BURKHARDT

How to Enhance Performance in Periodontal and Peri-implant Mucosal Surgery?

There is no doubt that knowledge is an indispensable factor for expert performance in periodontal and implant surgery. It is broadly understood as justified propositions most typically made available through lectures, books and journals, particularly those involving a review process which bestows the status of "acceptance". But there is another kind of knowledge that emerges from longstanding clinical practice. Some of this knowledge may be explicit - means available to consciousness - while another part remains implicit or tacit, very hard to teach. It is the goal of the first part of my presentation, to make the tacit knowledge that accumulated during decades of occupation as a periodontal surgeon explicit. It is worth to be discussed as it is most essential for younger colleagues on their way to proficiency. The focus will be on the interfaces between the human hand and the instrument handle (ergonomics) and the working end of the instruments and the mucosal tissues (bioengineering). After the discussion of the technical skills, the second part will shed light on the nontechnical ones such as intraoperative decision-making, situation awareness, communication and others. These factors are difficult to capture, but, according to scientific data, contribute with more than 75% to surgical proficiency. Most of the complications and errors in periodontal and implant surgery can be attributed to a deficiency of one or more of the nontechnical skills. The third part will focus on the development of occupational expertise through everyday clinical work activities. A critical analysis will help to manifest the weak points of surgeons' lifelong learning strategies. The entire presentation will be based on scientific data and personal experiences and supported by clinical examples and videos, documenting the different procedures.

LEARNING OBJECTIVES



- 1. Discussing tacit periodontal surgical knowledge**
- 2. Shedding light on non-technical skills e.g. intraoperative decision-making, situation awareness and communication**
- 3. Analysing weak points of surgeons' lifelong learning strategies**

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Asst. Prof. Juraj Brozović, DMD, PhD
Specialist in Oral Surgery

Juraj Brozović graduated out of School of Dental Medicine, University of Zagreb in 2009 at the top of his class. After continuing with the postgraduate doctoral study in 2009, his doctoral research titled "Analysis of the load transfer properties of different implant-abutment assemblies by digital holographic interferometry" was carried out at the Institute of Physics (Zagreb, Croatia), in collaboration with the Institute for Thermal Turbomachinery and Machine Dynamics (Graz, Austria), introducing a novel method in the field of dental implantology. He defended his PhD thesis in 2014. In 2012 he began his full-time specialist training in oral surgery at the Zagreb Clinical Hospital Center. After passing the specialist exam in 2016, he was awarded the position of scientific associate at Zagreb School of Dental Medicine. As assistant professor in Oral Surgery, he is currently Head of Dental Implantology course at the Faculty of Dental Medicine and Health, University of Osijek. He is an international lecturer on microsurgical approach, soft and hard tissue grafting procedures, and implant dentistry, authoring a decade of successful worldwide-held course series. Juraj is an Executive Board member of Croatian Society for Oral Surgery, member of Croatian Society for Dental Implantology, Croatian Medical Association and Swiss Society for Oral Implantology (SGI). He was awarded multiple awards for the achievements in his studies and research.

JURAJ BROZOVIĆ

The Invisible Things in Defect Repairs and Aesthetic Crafts

Tissue loss presents a common obstacle in attaining resilient and aesthetically pleasing implant and tooth-borne restorations, often indicating additional grafting procedures. In order to achieve predictable outcomes, advancing surgical techniques and individualised prosthetic solutions are used to optimise the ridge profile. A biologically-driven approach, carried out in a minimally invasive manner may challenge the conventional wound closure and flap management in grafting procedures and result with more predictable outcomes, and less sequelae for the patient. This lecture brings into focus soft and hard tissue grafting considerations with regards to the level of aesthetic challenge, invasiveness, and implant superstructure, proposing a new predictable approach to the aesthetic zone.

LEARNING OBJECTIVES



- 1. Recognize the invisible "Pillars of bone grafting"**
- 2. Understand the flap structure and state-of-the-art flap advancement**
- 3. Enhance predictability with the microsurgical wound closure**
- 4. Learn how to optimize the ridge profile in the aesthetic zone for small-to-intermediate defects in a minimally invasive manner**

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Prof. Reinhard Gruber, PhD
Professor for Oral Biology

Reinhard Gruber joined the Department of Oral Surgery at the Medical University of Vienna in 1999. From 2012 to 2015, Reinhard Gruber was head of the Laboratory of Oral Cell Biology at the University of Bern where he still holds an affiliation. In October 2014, he became Full Professor for Oral Biology at the Medical University of Vienna. Currently, he is Associate Editor of COIR and in editorial boards including Periodontology 2000, JCP and COI. He is in the Honorary Board of the Osteology Foundation and the ITI Research Committee. He is a Visiting Professor at Jiangxi University of Chinese Medicine. His laboratory uses fundamental cell biology and preclinical models to develop causal strategies in regenerative dentistry. His research has culminated in more than 290 peer-reviewed publications with a H-Index of 42.

REINHARD GRUBER

Osseointegration: Clinical Relevance of Biological Principles

Osseointegration of dental implants follows the biological principles of bone regeneration. It is the bone-resorbing osteoclasts that prepare the peri-implant bone for the work of the bone-forming osteoblasts. This cellular interaction is regulated by the osteocytes distributed in the bone, which act as sensors and regulate the osteoclasts and osteoblasts by releasing RANKL and SOST. Clinically, it appears important to maintain the vitality of osteocytes as dying cells initiate bone resorption. In addition, antibodies that neutralize RANKL and SOST are not only important as osteoporosis therapy, but are also associated with the occurrence of osteonecrosis and periodontal regeneration.

LEARNING OBJECTIVES



- 1. Understand the principles of osseointegration by histology**
- 2. Remember the biology of osteoclasts and osteoblasts**
- 3. Know the role of osteocyte in implant dentistry**
- 4. Recognize the pharmacological targeting RANKL and SOST**

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SYMPOSIUM AND WORKSHOP PROGRAMME

SYMPOSIUM REGISTRATION 690,- €
WORKSHOP 490,- €

SYMPOSIUM Nov 30th

08:00 – 08:20 **Registration**

08:30 – 09:00 **Opening Session:** “Technical Expertise, Experience and Skilled Execution”

All Speakers - Moderator: Tino Bonaccorsi

09:00 – 10:30 **Istvan Urban:** My Perspectives on Vertical And Horizontal Augmentation

10:30 – 10:45 **Take-Home Facts #1** - Questions and Answers

10:45 – 11:15 **Coffee Break**

11:15 – 12:45 **Rino Burkhardt:** How to Enhance Performance in Periodontal and Peri-implant Mucosal Surgery?

12:45 – 13:00 **Take-Home Facts #2** - Questions and Answers

13:00 – 14:00 **Standing Lunch** in the Atrium

14:00 – 15:30 **Juraj Brozović:** The Invisible Things in Defect Repairs and Aesthetic Grafts

15:30 – 15:45 **Take-Home Facts #3** - Questions and Answers

15:45 – 17:00 **Reinhard Gruber:** Osseointegration: Clinical Relevance of Biological Principles

17:00 – 18:00 **Meet & Greet** Evening Event

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HANDS-ON DAY Nov 29th

MASTERING THE CHALLENGE

JURAJ BROZOVIĆ AND THE TEAM

09.00 – 09.15 **Registration**

09.30 – 12.30 **State of the Art Graft Closure: The Six-Zero Standard**

Leaving the Comfort Zone to Step-Up Your Suturing Game

Challenge A – **Safe-Knot-Locking Technique**

Challenge B – **Direction Management with Monofilament Microsutures**

12.30 – 13.30 **Standing Lunch**

13.30 – 16.00 **Periosteal Release Done Right: Extreme Flap Advancement**

The Point of No-Return for Flap Management in Bone Grafting

Challenge C – **The Five Step Flap Elongation**

Challenge D – **Tension-Less Flap Closure**

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MASTERING THE CHALLENGE

JURAJ BROZOVIĆ AND THE TEAM
HANDS-ON COURSE

LIMITED NUMBER OF SEATS AVAILABLE
ADMISSION 490,- €

HANDS-ON DAY Nov 29th

State of the Art Graft Closure: The Six-Zero Standard

Leaving the Comfort Zone to Step-Up Your Suturing Game

In the first part the wound healing biology is discussed, with a thorough insight into suturing materials followed by step-by-step guidance through microsurgical suturing techniques and collagen materials applicable in grafting surgery. Its objective is learning to maximize the advantages of monofilament micro-sutures for the benefit of your surgery.

Theoretical:

- Understanding the biology of wound repair
- Everything you need to know about sutures
- Why and when to go micro?
- The advantages of microsutures in bone grafting and mucogingival surgery

Practical:

- "The Six-Zero Standard and Beyond" switch in sutures
- Essential suturing technique for grafting surgery and bleeding management
- Microsutures on models

This section challenges you with two take-home skills:

- Safe-Knot-Locking Technique
- Direction Management with Monofilament Microsutures

Periosteal Release Done Right: Extreme Flap Advancement

The Point of No-Return for Flap Management in Bone Grafting

The second part deals with grafting flap structure in detail and teaches you state-of-the-art flap advancement and closure. Tips and tricks are provided to avoid common procedural mistakes leading to failures.

Theoretical:

- Understanding the flap layers and dimensions
- "This will save your graft"
- What strategy to use in achieving passive closure

Practical:

- The periosteal cut
- Flap dissection
- Safe and passive closure using micro-sutures

This section challenges you with another two take-home skills:

- The Five-Step Tissue Elongation: Extreme Flap Advancement
- Tension-Less Graft Flap Closure

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VENUE DETAILS

IMPERIAL RIDING SCHOOL, AUTOGRAPH COLLECTION

Evolving from a 19th century military equestrian school to the city's largest cinema, this historic building has always been a defining part of Vienna's cultural landscape. Now, it is a grand 342-bedroom hotel that combines the original majestic facade with a contemporary addition, with idiosyncratic grandeur of regal Austria. Located in the artistic Landstraße district, the Imperial Riding School is surrounded by architectural fascinations, but stands out for its harmonious blend of aristocratic and bohemian characteristics. Its inside holds regal equestrian heritage, from the stable-inspired floors to the plethora of apple delights, plucked from the orchard that is a tribute to the school's founder, Emperor Franz Joseph I.



Delegates are responsible for booking their own accommodation. We have agreed a special rate of €299.00 per night for a deluxe single room and €333.00 for a deluxe double room, including breakfast. This rate is valid for booking before JUNE 14th, 2024. Please book as soon as possible as the rates and rooms are limited and subject to availability.

To make a reservation, please e-mail your full name, arrival and departure date, if you would like to book a single or double room and phone number to reservations@imperialridingschool-vienna.com

Tel: +43 1-711750

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Registration

Name:

Surname:

Address:

Postal Code:

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Cost:

- Symposium €690,-
- Workshop €490,-

Symposium attendance

Workshop participation

Submit

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TERMS & CONDITIONS

Compliance with delegate registration and Cancellation Policy for the Symposium.

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By completing the registration process you agree to these Terms and Conditions. Once your booking is accepted you will receive an invoice by email, to confirm your booking. To register properly, you must include Name, Surname, Street, Postal Code, City, Country, Email and Phone number.

Payment of fees

An invoice will be sent to you in days after registering. The payment is due within 10 days of reception. The payment date stated on the invoice is binding. Non-payment of the course fee does not constitute cancellation – see below.

Cancellation and fees

To cancel a confirmed registration you must specifically email to: tino.bonaccorsi@admedsol.com

You may cancel your registration, free of charge, until June 14th, 2024. After this date, the full amount is considered due.

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