



bone & tissue
regeneration



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Three-day intensive theoretical and practical course

Intensive course on management of periodontally compromised patients

Prof. Dr. Dr. h.c. mult., Anton Sculean, M.S., Ph.D.
Department of Periodontology, University of Bern

soft tissue

education

hard tissue

education



Baseline



Tunnel



mucoderm® in place



Flap closure



Result

Intensive course on management of periodontally compromised patients

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Course description

The aim of this course is to provide specialists as well as general practitioners who have an interest in periodontology with a comprehensive, evidence-based concept for successful management of periodontally compromised patients. During the three-day course, a treatment concept based on scientific evidence from the last three decades will be provided. The concept addresses most important aspects related to the treatment of periodontal and peri-implant diseases including diagnosis, nonsurgical-, antibiotic-/antiseptic-, surgical-, regenerative- and plastic-aesthetic therapy. The case presentations and case discussions will illustrate scientific evidence that may be included in the overall treatment philosophy helping the participant to include the acquired knowledge in her/his daily practice.

Day 1 Nonsurgical, antimicrobial and conventional surgical periodontal therapy Periodontal treatment planning

Theoretical part: 9:00 - 13:00

- Classification and diagnosis of periodontal diseases
- Oral biofilm and microbiological diagnostic techniques
- Non-surgical periodontal therapy
 - Use of hand instruments
 - Use of ultrasonic/sonic instruments
 - Use of lasers and antimicrobial photodynamic therapy (aPDT)
- Use of systemic and local antibiotics and antiseptics in periodontal therapy
- Periodontal surgery
 - Indications and contraindications
 - Surgical techniques:
 - Gingivectomy
 - Modified Widman flap
 - Apically positioned flap
 - Crown lengthening
 - Distal wedge procedure
 - Odontoplasty, osteoplasty and ostectomy
 - Root amputation, hemisection, premolarisation
- Risk factors/risk indicators which influence the short and long term outcomes following nonsurgical and surgical periodontal therapy
- How to plan periodontal therapy in my practice?
 - Examples of treatment planning for complex cases
- Periodontal maintenance: the key for long-term success of periodontal therapy

Practical part: 14:30 - 18:00

The following techniques will be exercised on pig jaws:

- Use of hand- and ultrasonic instruments for nonsurgical periodontal therapy
- Gingivectomy
- Access Flap
- Modified Widman flap
- Apically positioned flap with osteoplasty
- Correct placement of vertical releasing incisions
- Surgical techniques for distal wedge procedures
- Suturing techniques: interrupted sutures, vertical and horizontal mattress sutures, modified mattress sutures, periosteal sutures



Baseline



One-year post-operatively

Day 2

Regenerative periodontal therapy Treatment of peri-implant infections

Theoretical part: 9:00 - 13:00

- Biology of periodontal wound healing and regeneration
- Regenerative materials in periodontology:
 - Bone grafts/bone substitute materials
 - Guided tissue regeneration (GTR) with mucoderm®
 - Enamel matrix proteins (Emdogain®)
 - Platelet rich plasma/platelet rich fibrin (PRP/PRF)
 - Growth factors (PDGFs, BMPs, GDF-5)
 - Treatment combination
- Long-term results following regenerative periodontal therapy
- Choice of the optimal flap design and suturing technique to optimize healing
- Treatment concepts for intrabony defects
- Treatment concepts for furcation defects
- Case presentations
- Post-operative protocol
- Risk factors/risk indicators which influence short and long term outcomes following regenerative periodontal therapy
- Implant therapy in periodontitis patients
- Treatment concepts for peri-implant infections

Practical part: 14:30 - 18:00

The following techniques will be executed on pig jaws:

- Flap designs:
 - Papilla preservation techniques
 - Modified papilla preservation technique
 - Simplified papilla preservation technique
 - Single flap approach
- Treatment of intrabony and furcation defects with regenerative materials including Emdogain®, grafting materials and membranes
- Suturing techniques to achieve primary closure and optimize wound stability:
 - Vertical and horizontal mattress sutures
 - Modified mattress sutures
 - Combined mattress sutures
 - Double sling suture



Prof. Dr. Dr. h.c. mult., Anton Sculean, M.S., Ph.D.

Anton Sculean is a professor at, and chairman of the Department of Periodontology, University of Bern in Switzerland. He graduated in 1990 from the Semmelweis University in Budapest, Hungary and has received his postgraduate training at the University of Münster in Germany and the Royal Dental College of Aarhus in Denmark.

He received his Habilitation (PhD) at the University of Saarland, Homburg, Germany. From 2004 to 2008 he was the Head of Department of Periodontology, and Program Director of the EFP accredited postgraduate program at the Radboud University in Nijmegen, the Netherlands. In December 2008, he was appointed Professor and Chairman of the Department of Periodontology of the University of Bern, Switzerland. Professor Sculean has received many research awards, among others the Anthony Rizzo Award of the Periodontal Research Group of the International Association for Dental Research (IADR), and the IADR/Straumann Award in Regenerative Periodontal Medicine.

He has received honorary doctorates (Dr. h.c.) from the Semmelweis University in Budapest, Hungary and from the Victor Babes University in Timisoara, Romania. He is on the editorial board of more than 10 dental journals, amongst others the Journal of Clinical Periodontology, Clinical Oral Implants Research, the Journal of Periodontal Research and Clinical Advances in Periodontics. He is an Associate Editor at the journal of Clinical Oral Investigations (Quintessence International), a Section Editor at the journal of BMC Oral Health, and the Editor-in-Chief at the journal of Oral Health and Preventive Dentistry.

From 2009-2010 Professor Sculean was the president of the Periodontal Research Group of the IADR, and is currently the president of the Swiss Society of Periodontology. His current research interests include periodontal wound healing, regenerative and plastic-esthetic periodontal therapy, treatment of peri-implantitis, antibiotic and antiseptic therapies, laser and photodynamic treatments of oral biofilms. He has authored more than 200 articles in peer-reviewed journals, 12 chapters in periodontal text books, and has given more than 300 presentations at national and international meetings. He was the editor of the book „Periodontal Regenerative Therapy“ published in 2010 by Quintessence, and the Guest Editor of the Periodontology 2000 volume entitled “Wound Healing Models in Periodontology and Implantology”.

Day 3

Plastic aesthetic periodontal therapy

Theoretical part: 9:00 - 13:00

- Etiology of recession defects
- Classification of recession defects
- Indications and contraindications for recession coverage
- Biological rationale for use of free gingival- and connective tissue grafts
- Treatment options for single recessions
 - Laterally positioned flap
 - Free gingival graft
 - Semilunar flap
 - Classical and modified envelope technique
 - Classical and modified coronally advanced flap
 - Classical and modified coronally advanced flap with connective tissue graft, Emdogain® and/or collagen based soft tissue replacement grafts (mucoderm®)
- Treatment options for multiple adjacent recessions
 - Modified coronally advanced flap
- Modified coronally advanced tunnel technique
- New materials and innovations
- Post-operative protocol and factors that influence the outcome and long-term result of recession coverage procedures
- Strategies for selection of the optimal techniques and materials to achieve predictable root coverage
- Limitations of recession coverage and soft tissue grafting (papilla reconstruction, correction of soft tissue deficiencies around dental implants)

Practical part: 14:30 - 18:00

The following techniques will be executed on pig jaws:

- Surgical technique for placement of free gingival grafts or collagen based soft tissue replacement grafts (mucoderm®) to increase keratinized tissue width around teeth and dental implants
- Laterally positioned flap
- Harvesting techniques for palatal connective tissue grafts
- Suturing techniques for closure of palatal donor sites
 - Continuous interlocking sutures
 - Modified mattress sutures
- Modified coronally advance flap with collagen based soft tissue replacement grafts (mucoderm®)
- Modified coronally advanced tunnel techniques using Emdogain® and/or connective tissue grafts or soft tissue replacement grafts (mucoderm®)
- Suturing techniques for graft fixation
- Suturing techniques for coronal flap displacement and flap closure

soft tissue

education

hard tissue

This course is sponsored by



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