



Root coverage of recessions in mandible: Rationale and surgical techniques

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Predictable coverage of isolated and multiple mandibular gingival recessions is one of the most challenging endeavours in plastic-aesthetic periodontal surgery while the available data from the literature is still limited. In most of the described procedures, a split flap approach was adopted for preparing the flap, tunnel or envelope. However, especially in the mandibular anterior area, a split flap approach may be difficult to perform and bears the risk of flap perforation and/or graft necrosis during the healing phase. In order to reduce these potential complications, modifications of the tunnel procedure, i.e. the Modified Coronally Advanced Tunnel (MCAT), the Laterally Closed Tunnel (LCT) or their combination have been introduced.

Learning outcomes:

1. To present the clinical indications for the treatment of single and multiple adjacent mandibular gingival recessions.
2. To present the anatomical considerations and factors which influence the results.
3. To provide the biologic rationale, the step-by-step procedure and the results obtained with MCAT and LCT in isolated and multiple mandibular gingival recessions.

He is Professor and Chairman of the Department of Periodontology and currently the Head of the Dental Research Center (DRC) of the School of Dental Medicine, University of Bern, Switzerland.

He has authored more than 510 articles in peer-reviewed journals, 40 chapters in periodontal textbooks and has delivered more than 600 lectures at national and international meetings.

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Prof. Sculean has been a recipient of many research awards, among others the Distinguished Scientist Award of the International Association for Dental Research (IADR), the Anthony Rizzo Young Investigator Award of the Periodontal Research Group (PRG) of the IADR, the IADR/PRG Award in Regenerative Periodontal Medicine, the Distinguished Teacher Award of the European Orthodontic Society, and Honorary Membership of the American Academy of Periodontology (AAP). He was awarded honorary doctorates (Dr.h.c.) by the Victor Babes University Timisoara, Romania, the Semmelweis University Budapest and the Carol Davila University, Bucharest, Romania.

He is currently listed as the top-rated expert in Periodontics in the world.

He is Past President of the Periodontal Research Group of the IADR, of the Swiss Society of Periodontology, of the European Federation of Periodontology (EFP) and of the International Academy of Periodontology (IAP). He is board member of the Executive Committee of the EFP, of the Osteology Foundation, of the Oral Reconstruction Foundation and President Elect of the Continental European Division (CED) of the IADR.

His research interests focus on periodontal wound healing and regeneration, regenerative and plastic-esthetic periodontal surgery, use of antibiotics, antiseptics, and novel approaches such as lasers and photodynamic therapy in the treatment of periodontal and peri-implant infections.

