

CONTEMPORARY SOFT TISSUE GRAFTING

Lorenzo Tavelli

Contemporary soft tissue grafting

by Lorenzo Tavelli DDS, MS

Growth factors, autogenous grafts and matrices at teeth and implant sites. Surgery and Science

COURSE OVERVIEW

Dr. Lorenzo Tavelli and osteocom welcome you to “Contemporary soft tissue grafting”, the complete online course on cutting-edge protocols and minimally invasive techniques in soft tissue grafting.

With the development of new surgical techniques and the introduction of breakthrough biomaterials some concepts on periodontal surgery that were strictly applied in the past seem to be not so critical today. Recent advances in tissue engineering, and biomaterials, such as acellular dermal matrices and xenogeneic collagen matrices, allow the oral care specialist to offer less invasive alternatives to her/his more traditional treatment strategies. Root coverage, soft tissue phenotype modification at tooth and implant sites, peri-implant maintenance protocols, corrections of implant esthetic complications and periodontal plastic surgery have all been touched by the current treatment trends, aimed at offering contemporary, less invasive and predictable treatment options to a wider audience of patients.

“Contemporary soft tissue grafting” aims at providing to an audience of specialists in periodontics and implant dentistry as well as general practitioners a perspective on the latest innovations in periodontal and peri-implant surgery, transferring effectively the scientific rationale, the everyday clinical use and the concrete, practical advances offered by their implementation.

What you are going to learn:

1. Indications, guidelines and protocols for minimally invasive soft tissue grafting around natural teeth and implants.
2. How to effectively perform minimally invasive advanced soft tissue augmentation procedures with novel matrices and growth factors.
3. Predictable prevention and successful management of peri-implant complications in the esthetic zone.

4. The rationale behind the next generation of tissue engineering and the synergy with soft tissue grafting protocols.

At the end of the course you will:

1. Become proficient in periodontal and peri-implant soft tissue management.
2. Understand when and how to use soft tissue substitutes VS autogenous soft tissue grafts.
3. Improve your skill set with innovative soft tissue grafting procedures.
4. Promote soft tissue surgery in your everyday practice by proposing less invasive treatment options to a wider audience of patients.

Who you will learn from:

Dr. Lorenzo Tavelli is full-time faculty member in the Division of Periodontology at the Harvard School of Dental Medicine's Department of Oral Medicine and Immunity, and former clinical lecturer in the Department of Periodontics and Oral Medicine at the University of Michigan School of Dentistry. His activity focuses on clinical research in periodontal and peri-implant plastic surgery, with specific emphasis on the use of novel biomaterials and growth factors as alternatives to autogenous graft for reducing patient morbidity.

Who this course is for:

Specialists in periodontics and implant dentistry, as well as general practitioners, will benefit from this course, improving their knowledge and effectively adding cutting-edge knowledge to their surgical skill set in soft tissue grafting.

This course includes:

- 8 video lectures with immediate access, for a total duration of 8 hours of in-depth training
- 3 complete 4K ReLIVE surgeries with detailed commentary

VIDEO LECTURE 1

Physiological anatomy and mucogingival deformities of periodontal and peri-implant tissues

- Anatomy of healthy periodontal and peri-implant tissues
- Periodontal and peri-implant phenotype
- Techniques for assessing gingival/mucosal thickness and its significance
- Gingival recessions: etiological factors, classification, and rationale for treatment

VIDEO LECTURE 2

The free gingival graft. Is it still used nowadays?

- Is keratinized tissue needed to promote/maintain periodontal health?
- Is free gingival graft indicated for root coverage procedures?
- Is keratinized tissue needed to promote/maintain peri-implant health?
- Rationale, indications, and surgical approaches for increasing keratinized tissue around teeth and implants

VIDEO LECTURE 3

Gingival recessions. Coronally advanced flap or tunnel technique?

- Critical factors affecting the outcomes of coronally advanced flap and tunnel techniques
- Advantages and disadvantages of the two approaches
- Evolution of the techniques and their expected clinical, esthetic and patient-reported outcomes
- The tunneled coronally advanced flap

VIDEO LECTURE 4

The connective tissue graft. Indications and harvesting considerations

- Contemporary understanding of connective tissue graft indications
- Site-specific application of connective tissue graft
- Palatal harvesting techniques: risk of complications, graft quality and palatal wound healing physiology
- Management of palatal harvesting complications and post-operative pain reduction

VIDEO LECTURE 5

Acellular dermal matrix. When and how?

- Rationale for using acellular dermal matrices
- Structures and properties of dermal matrices
- Expected root coverage outcomes and phenotype modification

VIDEO LECTURE 6

Xenogeneic collagen matrices. Properties, indications, and handling for optimizing clinical and volumetric outcomes

- Properties and indications of different generation of collagen matrices
- Collagen matrix in combination with apically positioned flap at teeth and implant sites
- Novel cross-link collagen matrix for root coverage procedures and peri-implant soft tissue augmentation

VIDEO LECTURE 7

Growth factors and tissue engineering. The future is now.

- Evolution of techniques and biomaterials
- Tissue engineering triad
- Living cellular constructs
- Growth-factor mediated root coverage procedures

VIDEO LECTURE 8

Peri-implant soft tissue dehiscences. Prevention and treatment.

- Risk indicators for peri-implant soft tissue dehiscence
- New classification of peri-implant soft tissue dehiscence
- Contemporary surgical approaches and strategies for assessing treatment outcomes
- Crown removal and new prosthesis: when is it necessary?

ReLIVE Surgery 1

Coronally advanced flap with a xenogeneic acellular dermal matrix for the treatment of two adjacent maxillary gingival recessions.

ReLIVE Surgery 2

Tunneled coronally advanced flap (TCAF) in combination with a xenogeneic collagen matrix for root coverage and soft tissue phenotype modification in the upper right area.

ReLIVE Surgery 3

Tunneled coronally advanced flap (TCAF) with a xenogenic acellular dermal matrix for the treatment and soft tissue phenotype modification of multiple adjacent gingival recessions.

Lorenzo Tavelli DDS, MS

Full-time faculty member in the Department of Oral Medicine, Infection, and Immunity, Division of Periodontology at the Harvard School of Dental Medicine (Boston, USA), Dr. Tavelli graduated from the University of Milan in 2017. He completed his three-year residency in Periodontics and his Master of Science in 2020 at the University of Michigan. His main focus has been to conduct clinical research in periodontal and peri-implant plastic surgery.

Dr. Tavelli has published more than 80 scholarly publications in international peer-reviewed journals in periodontics and implant dentistry. He has been the recipient of several research awards, including the 2021 Goldman Clinical Research award by the Italian Society of Periodontology (SiDP), the 2020 American Academy of Periodontology Balint Orban Research Competition, first prize in the research competition at the 2020 National Osteology Symposium, the 2020 American Academy of Periodontology Foundation School Research Award, and first prize in the research competition at the third International Symposium on soft tissue management focused on teeth and implant dentistry in Florence, Italy. Since August 2021, Dr. Tavelli has been a full-time faculty at the Harvard School of Dental Medicine, Boston, USA.



