

RASPERINI MASTERCLASS

INTERPROXIMAL ATTACHMENT GAIN: THE CHALLENGE OF PERIODONTOLOGY

GIULIO RASPERINI

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by Prof. Giulio Rasperini

This Masterclass is conceived and designed to share with perio specialists all over the world the direct experience of the Author **Prof. Giulio Rasperini** in **periodontal regeneration strategies**, providing a set of **cutting edge techniques** designed **to combine periodontal attachment gain**, **intrabony defect resolution**, **phenotype and papilla improvement**.

This exclusive video Masterclass is brought to you with the aim to present **a modern concept in periodontal attachment loss treatment** and guide participants towards the **immediate application** of the approaches and cutting edge techniques described.

At the core of this new concept we find the holistic view of interproximal hard and soft tissues, with the aim of putting the correction of the deep and superficial components of the interdental defect into perspective within **an all-comprising treatment strategy**.

Periodontics has changed dramatically in these last few years. Yet, many periodontists and teachers are still anchored to concepts that were considered the standard of care twenty or even thirty years ago.

This program retraces **the evolution of periodontal regeneration** in terms of approaches and techniques presented and published over these last years, analysing the influence of **biomaterials progression** and the transformation and expansion of patients' needs, requests and expectations.

Comprising a description of the **new classification of periodontal diseases**, this Masterclass provides the learner with a deeper understanding of the **sinergy between mucogingival surgery approaches and the latest periodontal regeneration techniques**, in what can be referred to as a new range of treatment possibilities.

This Masterclass is structured to be **a valuable educational contribution for both young and experienced periodontists.**

The newly graduated participant will find a step by step guidance concerning the treatment rationale, and a detailed breakdown of the latest techniques, whose description is supported by several extensive clinical videos dedicated to different clinical situations.

The seasoned specialist will learn a new perspective on interdental attachment loss treatment, with a thorough description of the latest techniques published and valuable insights concerning the new trends in periodontal regeneration.

WHAT WILL YOU LEARN FROM THIS COURSE?

- Saving teeth affected by periodontal disease
- Periodontal disease diagnosis and classification
- Interproximal attachment loss diagnosis and papilla evaluation
- Interproximal attachment regeneration techniques, their clinical application, indications and limits
- Phenotype analysis
- Mucogingival surgery techniques: CAF and Tunnelling, either alone or in combination with connective tissue graft or heterologous matrixes
- New techniques combining the mucogingival surgery concepts and the latest trends in periodontal regeneration.

TECHNIQUES COVERED IN THIS MASTERCLASS:

- → Papilla preservation technique [by Takei et al.]
- → Modified Papilla Preservation Technique [Cortellini et al.]
- → Simplified Papilla Preservation Technique [Cortellini et al.]
- → Surgical technique for EMD [Rasperini et al.]
- → MIST - Minimally Invasive Surgical Technique [Cortellini et al.]
- → SFA - Single Flap Approach [Trombelli et al.]
- → M-MIST - Minimally Invasive Surgical Technique [Cortellini et al.]
- → Entire Papilla Preservation Technique [Aslan et al.]
- → Soft Tissue Wall technique [Rasperini et al.]
- → SFA with CTG [Trombelli et al.]
- → the VISTA Technique [Zadeh].

The Masterclass comprises:

- 9 readily available On Demand lectures with extensive surgical videos
- 2 recorded surgeries
- Interactive Q&A/Case Discussion session
- Certificate of Completion signed by the Speaker Prof. Giulio Rasperini.

INTERACTIVE Q&A SESSION: the dates will be shared with attendees, 2 sessions will be made available to give the chance to choose the date that best suits your schedule

Lezione 1: **Interproximal attachment gain: the challenge for periodontal regeneration**

This first lecture provides a definition of interproximal attachment, and highlights the importance of this parameter in the correct periodontal disease stage identification and classification.

Different types of interproximal attachment loss are shown, and the anatomic features of the papillae are analyzed to predict the healing potential.

The evolution of the biomaterials and techniques involved in periodontal regeneration are explained through a simple, schematic approach, paving the way for the description of the first therapy option: the non-surgical or flap-less approach.

Instrumentarium and biomaterial election - based on the tissue phenotype - are covered in the latter part of the lecture through the presentation of several case reports.

Lezione 2: **Papilla treatment: cases with horizontal bone loss and soft tissue deficiency**

The second lecture of the Masterclass focuses on papilla treatment in thise cases that show horizontal bone loss and soft tissue deficiency.

The discussion delves into the surgical steps to achieve optimal results, and shows whether it is necessary to plan an additional surgery session within our treatment plan.

Lezione 3: **Papilla Preservation Technique & Modified Papilla Preservation Technique**

The third lecture of the Masterclass provides a contextualisation of the biological rationale behind GTR, and describes two key techniques:

- the Papilla preservation Technique by Takei et al;
- the Modified Papilla Preservation Technique by Cortellini et al., with non-resorbable and resorbable membranes.

These techniques, their advantages and disadvantages, are thoroughly explained through a series of clinical cases.

Lezione 4: **Simplified papilla preservation technique**

The fourth lecture of the Masterclass focuses on the simplified papilla preservation technique by Cortellini et al.

This technique was designed to ensure the right positioning and the correct proximity between a membrane and the flap that covers it. The diagonal incision of the papilla allows to increase the connective tissue interface of the two flaps, a key feature useful both in narrow

interproximal spaces, as well as in the molar area where the papillae are too long to guarantee the correct blood supply.

Lezione 5: **The Surgical Technique for EMD**

This fifth lecture focuses on EMD.

Introduced on the market in 1996, EMD is an extract of enamel matrix and contains amelogenins of various molecular weights.

Amelogenins are involved in the formation of enamel and periodontal attachment formation during tooth development.

The Surgical Technique for EMD - published in 1999 by Rasperini et al. - is described thoroughly.

Lezione 6: **Avoiding papilla elevation: MIST and SFA techniques**

The sixth lecture of the Masterclass focuses on minimally invasive techniques in periodontal regeneration.

The possibility to use a gel rather than a membrane to achieve periodontal tissue regeneration allowed a marked evolution in surgical technique, reducing flap dimension and invasiveness.

The Minimally invasive approach by Wachtel et al, and the MIST by Cortellini et al. represent the first examples of this new evolutionary path.

The procedure simplification trend did not stop there; with the aim of avoiding papilla elevation, the Single Flap Approach by Trombelli et al. and the evolution of the MIST by Cortellini et al. saw the light; Aslan et al. introduced the Entire Papilla Preservation where the papilla is moved laterally.

All these techniques are addressed and described in this lecture.

Lezione 7: **Soft Tissue Wall Technique & new perspectives in periodontal regeneration**

The seventh lecture describes the Soft Tissue Wall Technique by Rasperini et al., and presents a study on 3D Printed graft (Rasperini et al.) as a future perspective for coronal shift of the interproximal attachment.

While some cases require to improve the height of the papilla and contextually reduce pocked depth, all the techniques described so far aim at maintaining the papilla level.

This consideration paves the way for a new era in periodontal regeneration technique evolution.

Lezione 8: **Phenotype assessment and mucogingival surgery concepts in modern periodontal regeneration**

The eighth lecture describes the importance of the diagnosis of the tissue phenotype.

This aspect is mandatory not only in mucogingival surgery, but also in periodontal regeneration.

The description provided covers soft tissue management in mucogingival surgery - comprising coronally advanced flap and tunnel technique - and offers a set of indications concerning the use of a connective tissue graft and/or a heterologous matrix.

The concept behind this presentation is to transfer the same rationale observed for mucogingival surgery to periodontal regeneration.

Lezione 9: **Combined approaches to interproximal attachment gain**

The ninth lecture of the Masterclass portrays a series of cases where the interproximal attachment was gained and the tissue phenotype improved simultaneously.

It is also shown the application of the VISTA technique, by Homa Zadeh, for the simultaneous treatment of the infrabony component of the defect and of the sorrounding soft tissue, erasing any risk of papilla dehiscence.

A case of interdental attachment regeneration, phenotype improvement and furcation involvement resolution completes the lecture.

Prof. **Giulio Rasperini** received his degree in dentistry and specialized in Orthodontics. He is an active member of the Italian Society of Periodontology, the European Academy of Esthetic Dentistry, and is an ITI fellow. He serves on the Editorial Boards for several publications, including the International Journal of Periodontics and Restorative Dentistry and the Journal of Implant and Advanced Clinical Dentistry. Dr. Rasperini has written several publications focused on Periodontology and Implantology, and has won awards for his research — most recently, the Earl Robinson Periodontal Regeneration Award from the American Academy of Periodontology. He is a professor in Milan, Italy and Michigan, United States, and maintains a private practice specialized in periodontics and implant therapy.




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