

LEADING REGENERATION

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Soft Tissue Regeneration



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Dr. Daniele Cardaropoli

Root coverage of
multiple gingival
recessions with
Geistlich Fibro-Gide[®]
and REGENFAST[®]



The Situation

The patient (aged 56 years) presented with an esthetic request in the upper quadrants with recessions and dental sensitivity problems. The patient showed no systemic pathology and did not smoke. Clinical examination revealed multiple recessions throughout the maxilla, often associated with enamel abrasions.

Pre-operative situation: The goal of the treatment was to improve esthetics and remedy the tooth sensitivity through complete recession coverage.

The Risk Profile

	Low risk	Intermediate risk	High risk
Patient's health	Intact immune system	Light smoker	Impaired immune system
Patient esthetic requirements	Low	Medium	High
Height of smile line	Low	Medium	High
Gingival biotype	Thick – “low-scalloped”	Medium – “medium scalloped”	Thin – “high-scalloped”
Shape of the dental crowns	Rectangular		Triangular
Infection at implant sight	None	Chronic	Acute
Bone height at adjacent tooth site	≤ 5 mm from contact point	5.5 – 6.5 mm from contact point	≥ 7 from contact point
Restorative status of adjacent tooth	Intact		Compromised
Width of the tooth gap	1 tooth (≥ 7 mm)	1 tooth (≤ 7 mm)	2 teeth or more
Soft tissue anatomy	Intact		Compromised
Bone anatomy of the alveolar ridge	No defect	Horizontal defect	Vertical defect



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Doctor of dentistry, trained in periodontology at the University of Turin. Active Member of SIdP (Italian Society of Periodontology and Implantology), EFP (European Federation of Periodontology), IAO (International Association for Orthodontics) and AO (Academy of Osseointegration). ITI Fellow (International Team for Implantology). International Member of the AAP (American Academy of Periodontology). Full member of the professional society Amici di Brugg. Scientific Director of PROED (Institute for Professional Education in Dentistry, Turin). President of the Giuseppe Cardaropoli Foundation for Research and Treatment in Periodontology. President of the Turin section of the ANDI (National Association of Italian Dentists).

Editorial board member and reviewer of international journals.

Independent practitioner in Turin, Italy.

“The patient wanted to improve esthetics and remedy the tooth sensitivity through coverage of the recessions.”



The Approach

To avoid residual scarring, a coronally advanced envelope flap with partial-full-partial thickness was planned, adequately passivated to allow introduction of the volume-stable matrix in view of the need to increase soft-tissue thickness as well. Geistlich Fibro-Gide® was then soaked in REGENFAST® polynucleotide gel and after a few minutes placed at 13 to 23 at the cemento-enamel junction. The flap had then to be advanced coronally in order to totally cover the matrix without tension.

The Outcome

This case demonstrates how the esthetic and functional demand for coverage of a multiple recession was met with Geistlich Fibro-Gide® matrix and REGENFAST® polynucleotide gel. The use of the matrix avoided autologous connective tissue harvesting, and the polynucleotide gel promoted better and faster tissue healing. The stability of the result in terms of both root coverage and increased soft-tissue thickness is noteworthy.

- | 1 Initial situation, frontal view of multiple recessions. | 2 Initial situation, occlusal view showing the need for increased soft-tissue thickness.
- | 3 Preparation of the envelope flap with sufficient passivation.
- | 4 Geistlich Fibro-Gide® matrix (thickness 3 mm) is imbibed with REGENFAST®.
- | 5 The matrix is placed and sutured to the receiving bed.
- | 6 The coronally advanced flap is sutured without tension. | 7 Upon removal of the sutures after two weeks, the tissues already show an excellent degree of healing. | 8 Situation 1 month after surgery. | 9 Situation 3 months after surgery, frontal view. | 10 Situation 3 months after surgery, occlusal view. | 11 Situation 6 months after surgery, frontal view. | 12 Situation 6 months after surgery, occlusal view.



More details about our distribution partners:
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Keys to Success

Flap design

Volume-stable matrix increasing soft tissue thickness

REGENFAST® polynucleotide gel promotes tissue healing



The use of REGENFAST® combined with Geistlich Fibro-Gide® allows for complete root coverage and optimal soft tissue thickness enhancement.

Dr. Daniele Cardaropoli



The new product selected by Geistlich

