

Root Coverage for the treatment of Gingival Recession

Guided Tissue Regeneration

A Growth Factor Mediated Approach to Gingival Recession Treatment

Drs. Alan Rosenfeld and George Mandelaris
Diplomates, American Board of Periodontology

Root Coverage via Guided Tissue Regeneration (GTR) for the treatment of gingival recession #11



Gingival recession #11
Root surface exposed (**yellow arrow**)

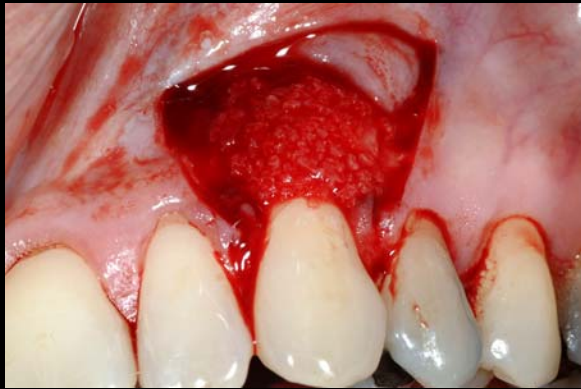


Root coverage surgery in progress

Note prominent root, thin bony housing

Root is decontaminated and prepared to receive graft

Root Coverage via Guided Tissue Regeneration (GTR) for the treatment of gingival recession #11



Bone graft applied to root surface after hydration in Platelet Derived Growth Factor (PDGF) medium to enhance wound healing.

Highly bioabsorbable membrane to cover & hold position of growth factor enhanced bone graft application.

Original tissue has been advanced to completely cover graft and establish root coverage for treated tooth (#11)

Dissolving microsurgical sutures are used.

Bone graft is used as a substitute for autogenous connective tissue graft.

GTR application is also aimed at recapturing lost tooth supporting structures of which other techniques are not.

Root Coverage via Guided Tissue Regeneration (GTR) for the Treatment of Gingival Recession #11

Pre Op



Post Op



Is there any evidence to support this treatment?

McGuire MK, Scheyer ET, Schupach P. Growth Factor-Mediated Treatment Of Recession Defects: A Randomized Controlled Trial and Histologic and Microcomputed Tomography Examination. *J Periodontol* 2009; 80(4):550-564.