

# THE 7<sup>th</sup> POSTER COMPETITION

The 14<sup>th</sup> Annual  
**MEGA'GEN**  
International Symposium  
in LAS VEGAS

**Beyond Technology**  
**- Digital & Esthetic Dentistry : A Powerful Combination**  
**Important numbers in implant dentistry**

**SR-07**  
**Scientific Research**

## The use of 4 Root Membrane techniques for papilla preservation

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### Objectives

Loss of blood supply derived from the periodontal ligament (PDL) has been identified as a major etiologic factor for ridge resorption. The Root Membrane technique (RMT) relies on the preservation of PDL, buccal plate and facial soft tissue esthetics via selective preservation of the buccal portion of the root.

### Materials & Methods

A 62 year old woman came to our clinic complaining of mobility of her front teeth. After clinical and radiological examination she was diagnosed with extensive root caries. A 3,5 mm by 11,5 mm Anyridge® was inserted on #21 with 50 N/cm<sup>2</sup> torque, a 3,5 by 10 mm was placed on #22 (45 N/cm<sup>2</sup> torque), a 3,5 by 11,5 mm (50 N/cm<sup>2</sup> torque) was placed on #11 and a 3,5 by 10 mm was placed on #12. All implants were immediately loaded with cemented provisional restorations. The final superstructure design of choice was cemented metal ceramic from the same lab- technician. The follow up period is already 3 years.



Fig. 1 Initial view

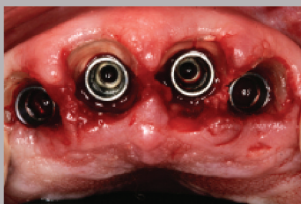


Fig. 2 Implant placement



Fig. 3 Provisional restorations

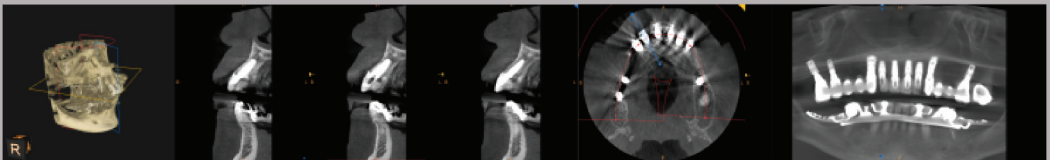


Fig. 4 CBCT and panoramic view after the placement of the implants



Fig. 5 Soft tissue 3 months



Fig. 6 Custom abutments



Fig. 7 Framework



Fig. 8 Final restoration



Fig. 8 3 years follow-up

### Conclusions

The RMT for immediate implant placement and loading in the aesthetic zone of the maxilla, has been proven to be a successful alternative method for the aesthetic preservation of the tissues in this demanding area. More studies have to take place in order to establish this trend technique as a validated scientifically surgical procedure.

### Reference

1. Siormpas, K, Mitsias, M, Kontsiotou- Siormpa E, Garber, D, Kotsakis GA. Immediate implant placement in the esthetic zone utilizing the "root-membrane" technique : clinical results up to 5 years post-loading.  
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