

THE 7th POSTER COMPETITION

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

CR-24
Clinical case Report

1st Surgical management of Root Membrane Complication

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Objectives

The Root Membrane technique (RMT) retains the buccal root after extraction, preserving periodontal vascularization, cementum bundle bone and the buccal bone wall. Nevertheless there are some cases that undergo some complications. This is a characteristic one.

Materials and Methods

A 47-year-old male patient referred to our clinic in order to treat a fractured right central incisor. A 4 by 11,5 mm Anyridge®, was inserted in proximity of the root fragment with a 45 N/cm2 insertion torque. 3 months later, patient came for the final restoration. A year after, patient came complaining of pain, swelling and gum alteration. An open flap surgical procedure was performed in order to extract the root, to debride the implant surface with Er: Yag laser and to augment the implant with a combination of bovine and human bone graft. I-gen®, membrane was used for coverage of the graft.



Fig 1. Initial labial view

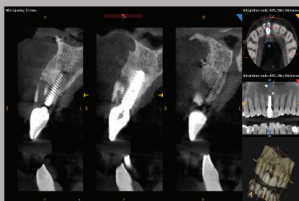


Fig 2. Initial CBCT

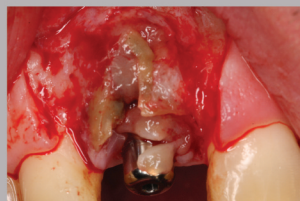


Fig 3. Full thickness flap

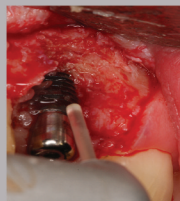


Fig 4. Er: Yag laser



Fig 5. Implant surface and bone after debridement

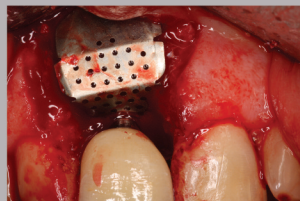


Fig 6. I-gen® membrane

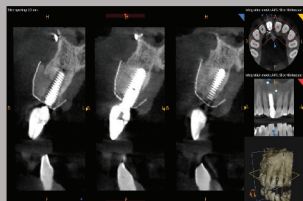


Fig 7. Post-surgical CBCT



Fig 8. 10 days follow-up



Fig 9. 15 days follow-up



Fig 10. I-gen® exposure 2 weeks follow-up



Fig 11. I-gen® exposure 2 weeks follow-up



Fig 12. 30 days follow-up (labial and palatal view)



Fig 12. (a, b) 3 months follow up (labial and palatal view)



Conclusions

Not all RMT complications require implant extraction.

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