Application of Plasmatrix in Horizontal Bone Augmentation for Implant Placement, a Case Report

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BACKGROUND

The **Plasmatrix Bone Block** can be designed according to the defect shape to meet customized defect bone augmentation.

Clinical Status: in this case 14,24 tooth loss due to caries decay removal, horizontal alveolar bone defect.

AIM

In this case, plasmatrix bone blocks were used to restore the horizontal alveolar ridge to the bone defect area, and implants were implanted at the same time.

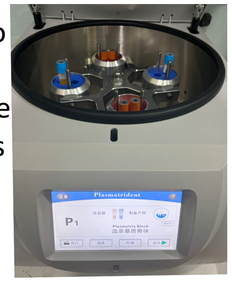
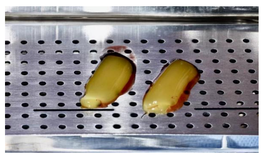
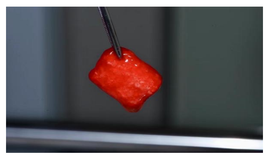


Photo: plasmatrix



MATERIALS&METHODS

1. Plasma matrix: Plasma matrix can be prepared into solid plasma matrix membrane or plasma matrix bone block.
2. Guided Bone Regeneration (GBR)
3. **Bone Material**: Natural calcined bone material, Gerui; Membrane, Landu Biotech.
4. Implant System: CAMLOG Promote, 14: 4.3*9mm; 24: 3.8*11mm.
5. **Surgical Procedure**: 2 CAMLOG implants were placed under the guide plate, the bone augmentation of plasma mechanism bone mass was completed at the same time, after 5-month restore gingiva shaping with the temporary prosthetics, and then final prosthetic restoration was completed in sequence.

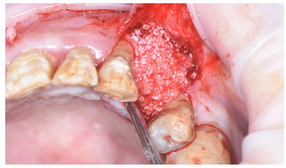
Photo: surgical process




RESULTS

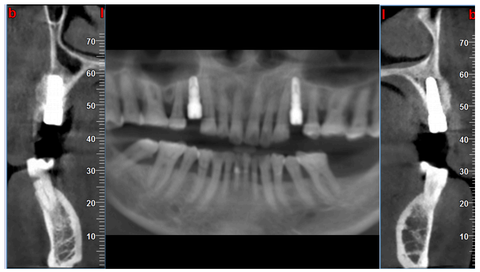
The patient's reaction after bone augmentation was mild.
After 2 months implantation surgery with bone graft, a well osseointegration result was observed by CBCT, and the gingiva state also well.

Photo: bone augmentation




day after surgery

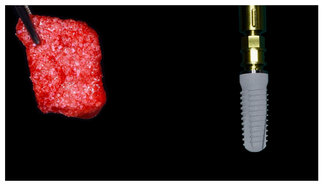
6 months after surgery



CONCLUSIONS

For a large range of horizontal bone defects, the application of different forms of plasma machine quality products according to the patient's own situation and the classification of horizontal bone defects can effectively improve the clinical tissue regeneration effect and simplify the surgical process.

Photo: bone block

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DISCLOSURE OF INTEREST

The author reports no conflicts of interest.