1 year follow up

A New Titanium Mesh And Palatal Connective Tissue Pedicle Graft For Peri-implant Bone Regeneration At A No-wall Dehiscent Site

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Objectives

To evaluate GBR using a new titanium mesh and rotated palatal subepithelial connective tissue graft RPSTG) in correction bone and soft tissue deficiency around the implant.



Materials and Methods

Two dental implants were inserted to replace two maxillary central incisors. To enhance the no-wall type bony dehiscence at the right implant site, a new designed implant-fixed titanium mesh combined with RPSTG was used for bone graft maintenance and coverage. Core beam computed tomography (CBCT) scans were performed to evaluate the facial contour augmentation by GBR.



Results

At the 1-year follow-up, the results revealed improved keratinized tissue and ridge development around the successful implant-support prosthesis. CBCT demonstrated a rebuilt crestal bone at the buccal aspect.

Conclusion

The GBR procedure using an implant-fixed titanium mesh combined with PRSTG might represent a potentially desirable treatment option for a no-wall type of peri-implant defect augmentation.



References

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