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Osseointegration of implant placed in extraction socket and augmented with alloplastic bone substitutes and subepithelial connective tissue graft

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Background: The objective of this study was to assess the osseointegration around endosseous dental implants inserted in fresh extraction sockets using β -tricalcium phosphate bone graft with and without sub-epithelial connective tissue graft.

Methods: 20 patients were enrolled in this study and allocated randomly to control group (10 fresh extraction sockets were implanted by immediate dental implants and grafted by β -tricalcium phosphate) or test group (10 fresh extraction sockets were implanted by immediate dental implants and grafted by β -tricalcium phosphate with a sub-epithelial connective tissue graft). The clinical parameters were monitored at 6, 9 and 12 months post-implantation while the radiographic evaluation was conducted immediately after implant insertion (baseline), 6 and 12 months postoperative. The implant stability was monitored using periostest at baseline, 6 and 12 months after implantation.

Results: All implants in both groups were well osseointegrated resulting in a 100% cumulative success rate after one year follow up. There were no significant differences between the studied groups regarding clinical and radiographical parameters throughout the study period. However, the patients in test groups displayed better assessments regarding pocket depth, periostest value, keratinized mucosa and marginal bone

level than patients within the control group.

Conclusion: The use of sub-epithelial connective tissue graft as a membrane with β -tricalcium phosphate bone graft could improve osseointegration around dental implants in fresh extraction sockets.

Biography

Yasser El-Makaky is assistant professor of Oral medicine and Periodontology, Faculty of dentistry, Tanta University, Egypt. Consultant in Periodontology, Egypt. Associated professor of Oral medicine, collage of dentistry, Taibahu University, Saudi Arabia. Consultant in Oral medicine, KSA. Certified Quality Manager, Carolina International University, USA. He has authored many published original research articles and book chapters and been invited speaker at many national and international conferences. He is responsible for lectures, clinical training and evaluation of oral medicine and periodontology for Master and PhD students in faculty of Dentistry, Tanta University, Egypt. He is responsible for lectures, clinical training and evaluation of oral medicine cases of undergraduate students in faculty of Dentistry, Taibahu University, KSA. He is a member of many oral health organizations including International Team of Implantology ITI and International Congress of Implantology ICOI. He works as reviewer for several international journals and editorial board member in several international journals.

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