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The effect of connective tissue graft and platelet rich fibrin around immediately placed dental implants in the esthetic zone: A randomized clinical trial, running head: ridge augmentation around immediate implant.

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Background: Following tooth extraction, restoring of normal function using immediate dental implants results in more patient satisfaction compared to delayed dental implants. Unfortunately following healing of the implant site, soft tissue profile could not be naturally restored. Therefore, soft tissue augmentation was introduced around immediate dental implants to achieve better esthetics. Purpose: The aim of the current study was to evaluate the clinical efficacy of immediate augmentation of the implant site using CTG and L-PRF. Materials and Methods: Twelve patients with single non-restorable teeth in the anterior/ premolar area were randomly assigned to either receiving immediate implant alone or immediate implant with CTG and L- PRF. The width of keratinized tissue (WKT), tissue biotype (TB), pink esthetic score (PES) and crestal bone level (CBL) were assessed before extraction (baseline), at 3 and 6 months after restoration. Results: Immediate implant with CTG and L- PRF showed a non-statistically significant difference on PES (p-value = 0.310) and a statistically significant difference on WKT (p-value = 0.162) and TB (p-value = 0.012).

Conclusion: Augmenting the soft tissue profile with CTG and L=PRF showed: (1) Enhanced TB 2) Increased WKT, 3) No effect was reported on the CBL

Biography

Dental Health: Current Research

Abeer Sharafuddin is from the Faculty of Dentistry Periodontology Department, Cairo University, Egypt. She is a Principle Investigator, done her PhD at Cairo University, Egypt. And she is from Faculty of dentistry at University of Science and Technology, Sana'a, Yemen.

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