

185 - Implant Therapy Outcomes, Surgical Aspects

One-stage implant surgical protocol with immediate soft- tissue graft

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Background: With the increasing popularity of one-stage dental implants in fresh sockets, came the need to create protocols specifically for single-stage surgery. This single surgical protocol shows that with proper implant positioning and immediate provisional restoration, the buccal gingival level can be maintained in association with connective tissue grafting, regardless of the initial gingival biotype, using a minimally invasive technique with virtually no need for flaps or sutures.

Nevertheless, careful patient selection and treatment planning, as well as spotless execution by skilful clinicians, are required to achieve a successful result.

Aim: The aim of this report is to present a one-stage dental implant surgical protocol for highly demanding cases with the use of an immediate implant placement with soft tissue graft and immediate restoration. This technique optimizes implant placement and soft tissue esthetics while providing the patient with an immediate fixed restoration.

Methods: Thirteen implants were placed in esthetically demanding sites in 13 patients (six women, seven men; age range of 20–59 years, mean 37.7 years, non-smokers), following a one-stage approach. All implants were placed immediately after extraction. Provisional titanium (n ¼ 11) and zirconia abutments (n ¼ 2) were used, and a provisional crown immediately placed. All patients were clinically observed at 1, 2, 3, 4, 6, 12, 18, and 24 months, and photographs were made perpendicularly to the facial aspect of the teeth at abutment placement to record soft tissue changes.

Results: Thirteen implants in total were evaluated to present date. Two over a period of 6 years, three over 5 years, two over 4 years, four over 3 years and two over 1 year. All implants were successfully osseointegrated and definitive restoration was placed after 4 months. For all cases, the gingival level remained stable at 24 months. Meaning, no significant soft tissue volume reduction was observed.

Conclusions and clinical implications: Within the limits of this study, this protocol seems to be reliable and to allow above-average soft tissue outcomes, together with immediate patient satisfaction.