Immediate Insertion and Provisionalization of OsseoSpeed™ Profile EV Implants in the Esthetic Zone: Early Results

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Background and Aim

In the anterior zone of the maxilla, the main problem to overcome is the physiological height difference between the oral, inter-proximal and facial bone and the soft tissue levels. To cover this problem a sloped implant has been developed with a height difference of the implant shoulder of approximately 1.5 mm to support the peri-implant structures circumferentially. This study evaluates the early clinical outcome (survival rates, marginal bone levels and Pink Esthetic Score (PES)) of OsseoSpeed™ EV Profile implants inserted into extraction sockets applying immediate provisionalization in the anterior maxilla.

Methods and Materials

A total of 11 OsseoSpeed EV Profile implants were inserted in 7 patients. All implants were immediately placed into extraction sites with and without facial bone deficiencies (2 intact, 4 defect, 5 complete loss). A flapless procedure was utilized and the implants were provisionalized immediately. Facial gaps between the implant and facial tissues were grafted with autogenous bone chips from the mandibular ramus (n=10) or a bone grafting material (Symbios AlgOss 80/20) (n=1). During the clinical study, implant survival, the interproximal bone levels and the PES were evaluated per implant.

Results

All implants were still functional at the final examination (survival rate: 100%). The mean follow-up period was 7.5 months (range, 6 to 9 months). Inter-proximal marginal bone remained at the level of the implant shoulder. The PES ratings improved in all cases and the mean PES changed from 8.5 (range, 4 to 13) to 11.5 (range, 8 to 14) at the final examination.

Conclusions

Survival rates, marginal bone levels, and esthetic results suggest proof of principle for the preservation of marginal bone and the improvement of peri-implant soft tissue esthetics when inserted and provisionalized immediately. With the use of immediate insertion, reconstruction and provisionalization protocol, even extraction sockets with facial bone wall defects can be successfully treated with a favorable esthetic outcome.

References


Cooper LF et al. (2015). Immediate provisionalized OsseoSpeed™ EV Profile implants inserted into extraction sockets applying immediate provisionalization in the anterior maxilla. JOMI 29: 709-717.

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