

Is Alveolar Ridge can be Completely Preserved by Socket Shield Technique (SST)?

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Introduction: Tooth extraction is usually followed by partial resorption of the residual alveolar ridge. Different techniques such as ridge preservation procedure has been proposed to maintain the ridge dimension. However, applying these methods to extraction sockets could not completely preserve the coronal part of facial bone walls, which were comprised almost entirely of bundle bone.

Case Report: A 45-year-old woman with non-contributory medical history presented to our clinic with non-restorable tooth #23, which doesn't has any periapical or periodontal pathology. After clinical and radiographical assessment, computed tomography (CBCT), indicated insufficient width of buccal bone plate therefore socket shield technique was planned for simultaneous immediate implant placement (Straumann 4.1x12 RN) with immediate provisionalization crown.

Initial follow up after two weeks, then after 2 month's final restoration by screw retained crown inserted. After 6 and 12 months of loading follow up by using CBTC, for evaluation bone remodeling and clinical evaluation of soft tissue changes around implants.

Results: Two weeks follow up revealed the healing was uneventful, and after 6 and 12 months the clinical and (CBCT) revealed, that retaining root fragment adjacent to the buccal crestal bone and placing an implant engaged to the palatal socket wall immediately are able to maintain the contour of the ridge.

And the implant can achieve osseointegration without any inflammation at peri-implant tissue and also soft tissue contour preserved.

Conclusion: After one year follow up, SST can prevent soft and hard tissue changes can be happens during healing of alveolar socket after tooth extraction. However the using SST as routine clinical practice stile need to higher level of evidence.

Biography:

Dr. Hassan H Koshak completed BDS, AEGD, MSD, SP-Board, and SFDI. Hassan work experience consultant in Periodontics and Implant Dentistry. He is Head of the Dental Department and Dental Educator at Comprehensive Specialized Polyclinic, Ministry of Interior Security Forces Medical Services, Jeddah, and Kingdom of Saudi Arabia.