

**COMPARITIVE EVALUATION OF TWO DIFFERENT SOCKET SEALING  
PROCEDURES WITH AND WITHOUT DEMINERALIZED FREEZE DRIED  
BONE ALLOGRAFT TO MAINTAIN HEIGHT OF ALEVOLAR RIDGE  
AFTER TOOTH EXTRACTION**

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## ABSTRACT

**BACKGROUND:** Successful preservation of the edentulous ridge after extraction may eliminate or reduce the need for ridge augmentation procedures. It has been claimed that grafting fresh extraction sockets and sealing them with autogenous soft tissue grafts promote ridge preservation. An objective method of maintaining height and width of alveolar ridge using demineralized freeze dried bone allograft sealed with autogenous masticatory mucosal graft was implemented in this study.

**METHODS:** Ten bilaterally symmetrical hopeless maxillary teeth scheduled for extraction were selected for this study. Involved teeth were extracted atraumatically and the sockets were curetted and slightly decorticated. The bone graft – DFDBA was placed in one of the extraction socket and sealed with an autogenous masticatory mucosal graft taken from the palate. On the other side, the socket which was filled with blood clot was kept as a control and was closed primarily with non resorbable sutures. Pre and post operative measurements of height and width of the ridges were assessed at intervals of one, three and six months.

**RESULTS:** There was statistically significant observation in maintaining the alveolar ridge height and width in the grafted site when compared to the non grafted site.

**CONCLUSION:** Socket sealing procedure using demineralised freeze dried bone allograft and sealed with masticatory mucosa was successful in maintaining height and width of alveolar ridge.

**Key words:** Socket sealing procedure, Ridge preservation technique, Demineralized free dried bone allograft, Masticatory mucosal graft, Height and width of Alveolar ridge, Implants.