

Reconstruction of bone defects using freeze-dried bone allograft and bio-glass. Egyptian Dental Journal, 46 (3): 1055-1064, July, 2000.

Abstract:

Numerous biological materials have been proposed for obliteration of bony defects after cyst enucleation to enhance to enhanced bone reconstruction. Both freeze-dried bone allograft (FDBA) and bio-active glass particulate possesses the ability to enhance new bone formation. Objective: To evaluate the radiographic density changes of bone defects filled with either FDBA or bio-active glass particles using intra-oral direct digital radiography through Digora system, Method: The bone density was measured immediately after cyst enucleation and at 1, 3 and 6 months postoperatively. Results: There was significant difference in the rate of density changes in all post-operative intervals compared to immediate follow-up data in the two graft groups. While in the control group, there was no significant difference. Also, there was no significant difference between the two graft materials throughout the whole postoperative intervals. Conclusions: The two graft materials appeared to promote healing and may have some enhanced osteogenic potential