

Digital and subtraction radiography for the assessment of bioactive glass in treatment of human osseous defects. Egyptian Dental Journal, 45 (3): 4199-4206, July, 1999.

Abstract:

Bio-active glass has been recently used in medical practice since 1984; it has the ability to bond to bone tissue and enhances bone growth by its osteo-conductive properties. The basis of bonding property of bioglass is their chemical reactivity in body fluids results in the formation of a silica gel, which is quickly covered by a calcium phosphorus rich layer. In this study bone healing was evaluated clinically and by (1) direct digital radiographic examinations through Digora system and (2) subtraction radiographic examination through special software. The radiographic examinations were performed immediately after the operation and after 2 weeks, 1, 2, 4, 6, and 8 months respectively