

Clinical & Radiographic Evaluation of the Efficacy of Locally Applied Chitosan Around Dental Implants in Controlled Diabetic Patients

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Abstract

Aim: To evaluate the effect of locally applied Chitosan on bone healing around dental implants in controlled diabetic patients

Materials & methods: Ten completely edentulous controlled diabetic patients participated in this study. Each patient received 2 implants inserted bilaterally in the mandibular interforaminal area. A split mouth technique was used in this study; Chitosan was applied locally in the right osteotomy sites before implant insertion. Mandibular overdentures retained by ball and socket attachments were constructed for all patients. Patients were placed on a recall program for 18 months were clinical assessment, alveolar bone height and bone density around implants were measured using digital radiography.

Results & Conclusions: Within the limits of this study, results suggest that local administration of Chitosan may enhance bone healing in controlled diabetic patients.

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