

Marginal Bone Loss in Early Loading Dental Implants with

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Abstract

Purpose: To evaluate the success rate and marginal bone loss in dental implants loaded after 6 weeks in the mandible, and for 36 weeks of follow-up.

Materials and Methods: The sample was composed of 15 subjects having 1 or more implants placed and loaded early between 2007 and 2009. Success rate was evaluated following Buser's criteria. A protocol was made in which patient age, gender; implant location, diameter and length, type of prosthesis, and the location of the opposing teeth were collected. Marginal bone loss was evaluated at 12, 24 and 36 weeks of loading on intraoral x-ray findings. A statistical analysis was made to process the variables.

Results: A total of 17 dental implants were positioned in 15 patients. The fixation success rate was 95%; mean bone loss was 0.58mm after 36 weeks of loading. The factors seen to exert a significant influence on bone loss were the zone of the arch and the teeth opposing the implant.

Conclusion: The recorded success rate and bone loss were similar to the values reported in the literature, thus supporting early loading as a safe and predictable procedure that allows a reduction in treatment time.

Keywords: early loading implant, marginal bone loss, success rate.

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