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عنوان مقاله:

Evaluation of Clinical and Radiographic Signs of Implants in Patients With Implant Retained Mandibular Overdentures

محل انتشار:

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خلاصه مقاله:

Background: The minimum standard treatment plan for the reconstruction of an edentulous mandible, according to York, is an overdenture supported by two implants. Objectives: The aims of this study were to evaluate and compare the clinical outcomes and peri-implant marginal bone loss around implants in patients treated with mandibular overdentures supported by ۱, ۲, ۳, ۴, and ۵ implants. Materials and Methods: A total of ۲۵ patients with amean age of ۶۲.۷ years old, who were treated with implant supportedmandibular overdentures at Hamedan's faculty of dentistry, were enrolled in this cross-sectional study. Among these patients, ۶ had overdentures supported by one implant, ۹ had overdentures supported by two implants, ۲ had overdentures supported by three implants, ۵ had overdentures supported by ۴ implants, and ۳ had overdentures supported by ۵ implants. The clinical and radiographic parameters around the implants were assessed, including: probing depth, width of keratinized gingiva, bleeding on probing, peri-implant inflammation, calculus formation, implant mobility, adverse events, and radiographic signs of peri-implant bone loss (distance between the implant shoulder and the level of the mesial and distal proximal bone). The ANOVA and the Fisher's Exact test were used to evaluate the significant differences among the groups. Results: None of the implants had loosened and no adverse events were seen around the implants. Additionally, the clinical variables did not show significant correlation with the number of implants. Overall, the bone resorption showed an inverse and significant relationship with the number of implants (P = ۰.۰۰۱). Conclusions: With mandibular overdentures supported by ۱, ۲, ۳, ۴, and ۵ implants, favorable clinical outcomes can be achieved. However, when increasing the number of implants, marginal bone loss decreases. For example, the patients with five implants showed less marginal bone loss than those with a lesser number of implants.

کلمات کلیدی:

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