Marginal bone level evaluation for combined tooth-implant retained Kennedy Class I Partial denture versus implant retained partial denture using extracoronal attachments

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Abstract

Aim: This study was conducted to evaluate and compare marginal bone level for Tooth-implant supported Kennedy class I partial denture compared to implant supported Kennedy class I partial denture using extracoronal attachments.
Subjects and Methods : Ten male partially edentulous patients (Kennedy class I) with the canines are the last standing abutments were selected and all patients were rehabilitated with metallic partial denture supported by osseointegrated implants one on each side of the arch positioned in the premolar area and were randomly divided into two equal groups according to type of abutments, Group I; Patients were rehabilitated with Tooth Implant Retained partial denture with extra coronal attachment, Group II; Patients were rehabilitated with splinted Implant Retained partial denture with extra coronal attachment on each side. Evaluation by measuring marginal bone level for last main abutments was made at the time of insertion, after 6 month, after 12 month and last after 18 month using radiographic evaluation.
Results: Partial dentures retained by two splinted implants showed better non-significant difference in marginal bone loss as compared with tooth implant retained Partial dentures. Conclusion: Using tooth implant retained partial dentures shows better effect on supporting structure as compared compared with tooth implant retained Partial dentures.

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