

Oral health-related quality of life in edentulous patients treated with implant-supported prostheses

Objectives: Oral health-related quality of life (OHRQoL) is affected by different variables. Tooth loss can have negative functional, aesthetic, and psychological consequences. Dental implant treatment approach have gained increasing popularity over the years in daily practice because of dental implant's high survival rates over time and they have become the preferred treatment option rehabilitation of edentulous patients. It is important to understand edentulous patients' perceptions about the impacts of treatment options on their oral health-related quality of life (OHRQoL). This clinical study aimed to evaluate the maxillary or/and mandibular edentulous patient satisfaction of 2-6 implant supported fixed/removable prosthetic denture designs opposing with different prosthetic designs.

Materials and methods: A total of 36 edentulous participants received two-six implants were treated with removable or fixed prosthesis with a mean follow-up time of at least 5-8 years in the mandible or/and maxilla were selected for this study. Each group divided equally into 3 groups according to the dental prosthetic designs. Group 1: Mandibular two implants retained overdenture with locator connections and opposing maxillary total prosthesis treated group (n=13) ; group 2: Maxiller and mandibular 4-6 implant supported fixed full-arc prosthesis treated group (n=13); group 3: Mandibular 4 implants supported fixed full-arc and opposing maxillary total prosthesis treated group (n=12). Minimum 5 years from completing the prosthetic treatment, the patients recalled to the clinic and were requested to fill the OHIP 14 questionnaire and VAS scale to assess their overall quality of life and level of satisfaction, both esthetically and functionally. Measurements were performed at baseline, and at 5-8 years following implant loading. Comparison of data between groups was performed using the Kruskal Wallis tests. The level of statistical significance was considered at $p < 0.05$.

Results: The results of this study indicated that patient satisfaction with both fixed and removable implant supported prosthesis served succesfull results in all patients. There were no significant differences among all groups.

Conclusion: This clinical study reveals that patients with removable or fixed implant-supported prosthesis in edentulous jaws were satisfied with their oral health-related quality of life (OHRQoL).

Note: The authors have no conflicts of interest to declare.

