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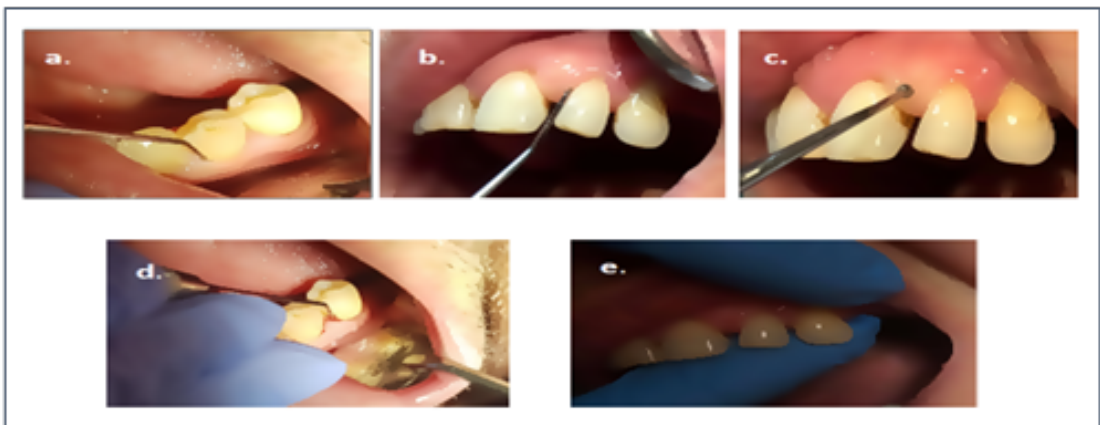
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Comparison of the impact of two types of removable partial dentures on the periodontal health of the remaining teeth – A prospective clinical study

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Removable partial dentures (RPD) are the most commonly used removable prosthodontic appliances for partial edentulism. The proper design of RPD can significantly reduce the incidence of such problems. Metal framework dentures have certain advantages over acrylic-based dentures, for instance, providing a stable denture base and maintenance of oral hygiene. The objective of this study was to evaluate and compare the impact of two removable partial dentures (ARPD and MRPD) on periodontal tissues of the remaining teeth in the first 12 months of denture use. This prospective clinical study included 40 patients, of which 20 received ARPDs, 20 received MRPDs, 9 in the maxilla and 11 in the mandible each. The patients were 45–65 years old; 24 were female and 16 were male. Patients' demographic details, clinical indicators of periodontal complications and biochemical measurement of Hs-CRP and ALP were considered. One-way ANCOVA and Friedman were used to measure the differences in clinical periodontal parameters between the two types of dentures. The significant findings were: PLAQ scores for abutment teeth were higher in MRPD wearers (mean=12.15) than ARPD wearers (mean=10.45), whereas ARPD users had significantly higher mean BOP values (mean=1.5) than MRPD users (mean=0.00); mobility of abutment teeth showed no significant differences; timeline comparisons showed a significant increase in the percentage of non-abutment teeth mobility in ARPD users ($p=0.028$) compared to MRPD users over the same follow-up period ($p=0.102$). For a short-term period of 1 year, periodontal and mobility parameters have no significant impact on the abutment and non-abutment teeth of ARPD and MRPD users. Moreover, biochemical markers (CRP and ALP) for periodontal inflammation exhibited no significant difference in both types of dentures. This is the first prospective clinical study comparing ARPD and MRPD treatment in terms of their impact on oral health indicators.



Recent publications

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Biography

Manushaqe Selmani Bukleta is assistant professor at college Rezonanca, faculty of Dentistry, Pristina, Kosovo. She is also a prosthodontic specialist in Dental Clinic Mdent-Family Dentistry, Prishtina, Kosovo. She completed her doctoral studies at the university of Ljubljana, Slovenia in 2021. Her professional and academic experience is based on the improvement and prevention of removable partial denture complications. Early detection of complications in remaining teeth have been the basis of various scientific studies. Her basic professional and scientific models have been used in educational institutions, where she lectures on this topic

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