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Effect of major connector design and numbers of guide plates and rests on the fit of cobalt-chromium partial denture frameworks on initial clinical insertion: A retrospective analysis**Mirza Rustum Baig**

Kuwait University, Kuwait

Objective: To retrospectively evaluate the influence of major connector design and numbers of guide plates and occlusal/incisal rests on the number of fabricated frameworks needed until the realization of clinically adequate fit of PRDP (partial removable dental prostheses) Co-Cr (cobalt-chromium) frameworks.

Materials & Method: Electronic case records of 100 partially dentate patients treated with Co-Cr PRDPs in single or both arches, by undergraduate dental students, were examined and relevant data recorded by three examiners. The relationship between the three PRDP design features with the number of frameworks that were required to be made in each case were statistically analyzed analysis of variance (ANOVA) and Post hoc Tukey tests ($\alpha=0.05$).

Results: Data were derived from 128 (53 maxillary and 75 mandibular) records of the treated partially edentulous arches. The major connector design and numbers of guide plates and of rests were found not to be significantly correlated with the number of framework fabrication attempts, for both the arches combined, or when arches were considered independently ($P>0.05$).

Conclusion: In the present sample, none of the component features of PRDP frameworks that were tested were associated with the fit of the frameworks, which suggests that other variables in the fabrication process of PRDP frameworks needed investigation in relation to their accuracy of fit

mrbaig@hsc.edu.kw