

34. Marginal fit of metal ceramic copings fabricated with slm technique and cad cam fabricated zirconia copings

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Background. Marginal fit is one of the important criteria for the success of any restoration. Inadequate marginal adaptation leads to dissolution of the cement, micro leakage, pulpal inflammation along with causing periodontal disease due to plaque accumulation. . . **Purpose.** To evaluate and compare the marginal fit of metal ceramic copings fabricate using slm technique with that cad cam fabricated zirconia copings.. . **Materials and methods.** A metal master model of the prepared molar tooth was fabricated using cobalt-chromium alloy.using this a total of ten metal ceramic copings were fabricated using the slm technique and ten zirconia copings were fabricated using the cad cam technique .these copings were directly placed on the metal die and marginal gap were measured on all the four surfaces using a toolmakers microscope of 30x magnification.the statistical analysis was done by independent t-test .. . **Results.** The results of this study reveal that no statistical significant difference was present in the marginal gap of metal ceramic copings fabricate using slm technique with that of cad cam fabricated zirconia copings ($p > 0.05$) by means of independent t-test. . . **Conclusion.** With in the limitations of this in vitro study there was no significant difference between the marginal gap of the metal ceramic copings fabricate using slm technique and that of zirconia copings fabricated using cad cam technique.

DOI: 10.4103/0972-4052.246644