

Marginal Integrity of Turkom-Cera Compared to Other All-Ceramic Materials: Effect of Finish Line

Type: Article

Abstract:

The aim of this study was to evaluate the marginal adaptation of Turkom-Cera all-ceramic crowns compared to In-Ceram and Procera AllCeram systems. The influence of finish line design (chamfer or shoulder) on the marginal adaptation of Turkom-Cera all-ceramic crowns was also investigated. Thirty human premolars were prepared with chamfer margins and assigned to either the Turkom-Cera, In-Ceram, or Procera system group. In addition, 10 premolars were prepared with rounded shoulder finish lines and assigned to an additional Turkom-Cera group. Ceramic copings (0.6-mm thick) were fabricated for each group following the manufacturers' instructions. The copings were seated on abutments using a special holding device that facilitated uniform loading, and marginal adaptation was assessed using a stereomicroscope. Data were analyzed using analysis of variance, the Tukey HSD post hoc test, and an independent samples t test. There was a statistically significant difference regarding marginal adaptation among the three all-ceramic systems ($P < .05$). There were no significant differences in the mean marginal discrepancies of Turkom-Cera crowns among chamfer and shoulder finish line groups ($P > .05$). Within the limitations of this study, the marginal discrepancies were all within the clinically acceptable standard.

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Source	International Journal of Prosthodontics
ISSN	0893-2174
DOI	-
Volume (Issue)	24(4)
Page	379-381
Year	Aug 2011

Keyword:

fit, crowns

Please Cite As:

AL-MAKRAMANI, B. M. A., RAZAK, A. A. A., ABU-HASSAN, M. I., SULAIMAN, E., LOON, L. J. & YAHYA, N. A. 2011. **Marginal Integrity of Turkom-Cera Compared to**

Other All-Ceramic Materials: Effect of Finish Line. *International Journal of Prosthodontics*, 24, 379-381.

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