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Literature Abstracts

Thermo-hydrolytic stability of core foundation and restorative composites

This in vitro study evaluated the influence of thermo-hydrolytic stress on the flexural strength and flexural modulus of core foundation composite resins. The filler percentage was also evaluated. Nine composite resins (Coreflo, DC Core, Photocore, APX, Litefil II A, Surefil, TPH Spectrum, Z100, and Z250) were fabricated following ISO Standard 4049. A total of 216 specimens were fabricated. Flexural strength and flexural modulus were determined on the composite resins before and after storage in boiling water for 24 hours. The filler content in the composites was determined by incineration. Filler content of the tested composite resins ranged from 66.6% to 81.8%. Significant differences in both flexural strength and flexural modulus existed among the materials. After boiling, Coreflo, DC Core, Z100, and Z250 showed a significant decrease in flexural strength, but Surefil showed a significant increase in flexural modulus. The authors concluded that composite resins were affected differently by thermo-hydrolytic stress. Stability of the composite resins varied among brands and this may affect the long-term function of core foundations.

Arksornnukit M, Takahashi H. J Prosthet Dent 2004;92:348–353. References: 32. Reprints: Dr Mansuang Arksomnukit, Chulalongkorn University, Department of Prosthodontics, Faculty of Dentistry, 34 Henri-Dunant Rd., Bangkok 10330, Thailand—Ansgar C. Cheng, Singapore

Vertical marginal discrepancy of ceramic copings with different ceramic materials, finish lines, and luting agents: An in vitro evaluation

This article evaluated the pre- and post-cementation vertical marginal discrepancy of 2 different crown preparation finish lines, 3 all-ceramic coping manufacturing techniques (Procera, Empress 2, and InCeram), and 3 luting agents (zinc phosphate, resin-modified glass ionomer, and resin composite cements). Two standard stainless-steel molars were prepared for crowns with chamfer and rounded-shoulder finish lines. Each tooth was duplicated to fabricate 90 ceramic copings. They were divided into 18 groups. Ten copings were used for each finish line/coping material/luting agent combination. The distance between 2 predetermined points was measured before and after crown cementation. The results showed that Procera copings demonstrated the lowest mean values of preand post-cementation marginal discrepancy (25 and 44 μ m), followed by Empress 2 (68 and 110 μ m), and InCeram Alumina copings (57 and 117 μ m). Finish lines and luting agents demonstrated insignificant effects. The result of this study would be more interesting if there was a control group using conventional metal copings.

Quintas AF, Oliveira F, Bottino MA. J Prosthet Dent 2004;92:250–257. References: 52. Reprints: Dr Adriana F. Quintas, Rua Dr. Alceu C. Rodrigues 247, #101 São Paulo 04544 000, Brazil—Ansgar C. Cheng, Singapore

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