

23rd Global Dentists and Pediatric Dentistry Annual Meeting

July 17-18, 2017 Munich, Germany



Voltis Dakaj

Aldent University, Albania

The precision of fit of zirconia all ceramic crowns

Marginal fit is a very important factor considering the restoration's long-term success. Adding porcelain to copings may cause distortion and lead to an inadequate fit of all ceramic crowns. The aim of this study was to measure the marginal and internal fit on zirconia all ceramic copings and crowns. Two teeth extracted for periodontal reasons were prepared for zirconia all ceramic crowns. Zirconium copings were made with CAD/CAM zirkonzahn system. On those copings, we applied ceramic layers. Measurements were performed with replica technique threw optic microscope. For each copings or crowns, the specimen was measured at 32 points. All data were statistically analyzed with student t test. The mean marginal gap was 89.7 μ m for central zirconia coping and 67.22 μ m for the premolar zirconia coping; Internal gap for central zirconia coping was 88.31 μ m and 61.9 μ m for the premolar zirconia coping. The mean marginal gap after applying ceramic layers was 89.96 μ m for central all ceramic crown and 66.9 μ m for the premolar all ceramic crown; Internal gap for central all ceramic crown was 88.3 μ m and 61.83 μ m for premolar all ceramic crown. The zirconia all ceramic zirkonzahn copings and crowns meet the clinical acceptable criteria. There is no significant difference between marginal and internal fit on the zirconium zirkonzahn copings with zirkonzahn all ceramic crowns.

Biography

Voltis Dakaj has completed his DMD at Aldent University and participated as a speaker at 22nd Albanian National Dental Conference. Currently, he is working at a dental office as a General Dentist.

voltis_93@live.com

Notes: