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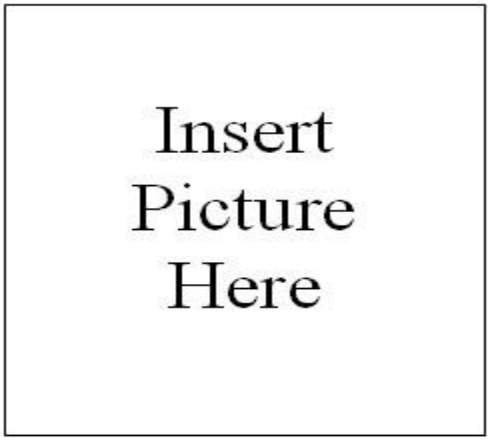
*Abstarct: *(250 Words)*

The objective of this numerical analysis was to evaluate the stress distribution and load transfer to the bone, via metal-ceramic, and all-ceramic single implant-supported prostheses (upper premolar crown) under functional forces. A 3D Finite Element model was specially prepared to evaluate the performance of three-crown materials (In-Ceram alumina, zirconium, and Porcelain fused to metal), fixed with Glass ionomer cement type. In addition, Zinc phosphate cement was also tested with Porcelain fused to metal as a traditional type. Spongy bone and implant/abutment complex are insensitive to cement type with using Porcelain fussed to metal crowns. Zirconium, and Porcelain fussed to metal crowns behavior, is nearly the same, and much better than In-Ceram alumina ones. Linear static stress analysis was performed to simulate 300 N loading on upper premolar distributed at Palatal Cusp Tip and Central Fossa with two different values in vertical and oblique directions.
Considering the absence of a periodontal ligament in the implant biomechanics, the interface is rigid and direct, so the load applied to the implant/prosthesis system is directly transferred to the bone. The bone function is monitored by the physiological answer to the distribution of functional loads, resulting in modification of trabecular bone and remodeling of cortical tissue. The implant moves only because of bone elasticity, which allows movement from 3 to 5 micrometers vertically and 10 to 50 micrometers laterally.

Abstract Image (if Any):



*Biography (Up to 100 words):

***Main Author Image**

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