

Influence Of Platform Switching Concept On Marginal Bone Alteration Around Dental Implant

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Abstract

The aim of the current study was to investigate the role of the type of abutment/implant connection on the marginal bone loss around dental implant. The present study was conducted on fourteen patients, eight males and six females with age range from 26 to 40 years. Thirty consecutive dental implants were inserted for implant supported restoration in the posterior maxilla. The dental implants of all subjects were assigned to one of the 3 platform diameters which were 3.8 mm (control group), 4.5 (test group A) and 5.5 mm (test group B). At the time of prosthetic rehabilitation, 3.8 mm abutments were connected to the all inserted dental implants. Radiographic assessment of marginal bone level was performed immediately at the time of abutment connection (baseline) and every six months for 24 months after final restoration. Statistical analysis revealed that there was a significant difference between the control group and both test groups as regard the total mean of marginal bone loss in favor of test groups A & B. In conclusion, platform switching concept seems to have a role in minimizing the marginal bone loss around dental implant.

Egyptian Dental Journal 2012, July