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Comparative Evaluation of Crestal Bone Loss Following Titanium Implant Placement by Conventional Osteotomy and Osseodensification Technique

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Abstract

Aim: The present study was done to evaluate and compare the crestal bone loss following titanium implant placement by osteotomy and Osseo densification technique.

Setting and Design: In vivo comparative study

Materials and Methods:

The study was conducted on twenty patients divided into two groups: Group A and Group B. In Group A, ten implants were placed in patients by osteotomy technique (Conventional drilling) and in Group B, the remaining ten implants were placed in patients requiring implants in Maxilla by Osseo densification technique. The crestal bone loss was evaluated and compared in both groups using an RVG sensor with an IOPA grid by paralleling technique at different time periods of one month and third month of implant placement and the same was compared with that of radiograph taken at baseline.

Statistical Analysis used:

The data obtained were subjected to an independent t-test (for comparing two groups) and paired t-test (for intragroup comparison)

Results

The data obtained from the intra-group comparison in the Osseo densification technique showed no appreciable bone changes in the first and third months when the same was compared with that of the baseline. Whereas the intra-group comparison in the Osteotomy technique showed crestal bone loss, though statistically, it was insignificant.

CONCLUSION

Within the limitations of this study, it was concluded that no significant difference in crestal bone loss was seen between Osseo densification and Osteotomy technique at the first three months of implant placement when compared using an Independent t test as $p > 0.05$

keywords : osseodensification, crestal bone loss, osteotomy

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