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Evaluation the accuracy of dental implant placement using an innovative manually fabricated surgical guide technique

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Aim: The aim of this study was to evaluate the accuracy of dental implant placement, using CAD/CAM fabricated surgical guide versus an innovative manually fabricated surgical guide.

Materials & Methods: Twenty partially edentulous patients were selected for this study, for which 26 implants was placed. According to method of surgical guide fabrication, patients were divided into two groups (n=13); CAD/CAM fabricated surgical guide versus an innovative manually fabricated surgical guide utilizing a special technique (San technique). The CBCTs were acquired for the both groups. The AccuGuide software was used for virtual planning and 3D superimposition to evaluate the placement of the implants post-operatively. Data were collected, tabulated and statistically analyzed.

Results: There was no statistically significant difference in linear and global parameters measured in this study between CAD/CAM and CAD/MAM groups. The mean global difference was 0.05 mm at the coronal level, 0.07 mm at the apical level, and the axis deviation was 0.46 degrees.

Conclusion: The use of San technique appears to be an acceptable alternative method, for manually fabricated surgical guide, based on virtual planning of dental implant.

Biography

Nabeel Seryoka Martani is a Lecturer in the Department of Conservative Dentistry at Hawler Medical University, Iraq. In 1996, he has received BDS degree (Dental & Oral Surgery) from University of Mosul-Iraq. After that, MSc degree in Conservative Dentistry from University of Salahaddin-Iraq in 2003. Followed by PhD degree in 2015 from the Department of Oral Rehabilitation Science at Beirut Arab University-Lebanon.

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