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Review article

Different Techniques of Computer Aided Implantology

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Abstract

Aim: The aim is to review in detail the various computer-aided techniques for implant placement and to quote the advantages and disadvantages of each system.


Background: Implant placement is a routine procedure nowadays. Freehand placement comes with several challenges as they have to be placed accurately avoiding cortical perforations or impingement on other adjacent critical structures. It is very difficult to place implants especially for an inexperienced operator without the help of any kind of guides. With the use of CAD/CAM technology, static guides were developed which helped in better placement but had its own disadvantages. So, to overcome this, dynamic navigation was introduced with the help of further technological advancement.

Result: Dynamic navigation was found to be better than static and freehand

Conclusion: In terms of accuracy and precision, computer aided dynamic navigation provides a better guidance for achieving the preplanned implant position

Clinical significance: Both static and dynamic navigation system are helpful in implant placement with their inherent advantages and disadvantages. However, the selection of a particular system depends on the feasibility and cost effectiveness of the procedure and the skill of the operator.

Keywords: Computer aided implantology, static navigation, dynamic navigation

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