Guided navigation surgery for the installation of zygomatic fixations: a case report

Abstract

The success of implant rehabilitation depends on the correct three-dimensional location of the implant within the supporting bone structure. Surgical guides are used to assist the professional in installing the implant satisfactorily. These are obtained through a planning, based on a computerized tomography and the use of a specific software for implant planning, allowing a greater accuracy and favoring the adequate three-dimensional positioning. The tomographic guide can be static, when the guide does not allow the modification of the positioning of the implant, or it can be dynamic, in order to allow greater freedom to the professional during the execution of the surgical act. The objective of this study was to report a clinical case of zygomatic implants, using a surgical navigation system, allowing the procedure to be performed with a lower risk of injury to adjacent structures, implanting the implants in a previously planned position, generating greater predictability in the surgical procedure and subsequent prosthetic planning. In this way it is concluded that the use of surgical navigation is an important tool and can help the professional, especially in regions difficult to access or where the use of static guide is unfeasible.

Descriptors: Computer Assisted Surgery. Dental Implants. Computer Aided Design. Computed Tomography.

Moreira Júnior R, Klein GG, Abreu JW, Melo PB, Jesus MF, Moreira R. Cirurgia guiada por navegação para instalação de fixações zigomáticas: relato de caso clínico. R Odontol Planal Cent. 2019 Jan-Jun;9(1):10-20.