

Implant-Guided Surgery and its Role in the Correct Choice of Prosthetic Work

Enea Haxhiraj*, Ira Bollo

Faculty of Dental Medicine, University of Medicine, Tirana, Albania

Abstract

Background: Dental implants are now considered a predictable treatment option for tooth replacement. And before the surgical procedure, one should always think about the prosthetic part behind it. And to make this easier and more secure, surgical guides step in.

The aim of this study was to evaluate the accuracy of guided surgery planning and its role in helping us to choose the right prosthodontic system. In many cases, different factors contribute in making us choose the type of prosthetic component. In cases of cemented prosthetic selection, the loss of marginal bone is greater compared to screw-retained and that's why we prefer to tend towards the screw-retained prosthetic.

Case report: The case presented in this report is about replacing a missing molar no. 36. After the radiographic evaluation with CBCT, the presence of the mesial roots of 36, infection and bone resorption is evident. After treatment of the 37, and post-extraction implant placement on 36 through a surgical guide, a personalized healing abutment is placed on it. After six months, we noticed not only zero bone deficit after implant placement but also an improvement of bone level, all this thanks to the surgical guide.

Conclusions: Thanks to the surgical guides, we can choose the right screw-retained type of prosthodontic restoration, which contributes even more in success and preserving the bone.

Keywords: implant guided surgery, post-extractive implantology