



Lecture Abstract

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Main implantological topics:

- Guided surgery
- Immediate loading

Professional skills:

- 1998 Private practice for dentistry and implantology
- 2002, 2004 Certificate in implantology, certificate in oral surgery (Landes Zahnärztekammer Rheinland-Palatinat)
- 2008 Head of the attending department for dentistry, implantology and oral surgery in the Hospital Barmherzige Brüder, Trier, Germany

Virtual planning and guided surgery; functional and psychological advantages and predictable esthetic in demanding cases

The insertion of endosteal implants as a fixation element of prosthesis works shows currently the greatest development in prosthetic dentistry.

The aim to ensure the ideal prosthetic position of the implant can only be realized by high precision planning tools. Based on the CT/DVT 3-dimensional data of the patient, the surgeon is able to plan the precise prosthetically dictated implant position according to the available bone volume. After the transmission of these data into the virtual planning programme ExpertEase™ and after the digital planning of the surgical treatment, the fabrication of the guiding template based on a stereo lithographic model will be determined. The use of the template helps not only in critical anatomic situations but also in the precise placing of the implant in an ideal prosthetic position and eliminates possible manual placement errors and matches at the same time the possibility of an immediate restoration by immediate loading with XiVE® according to the prosthetic requirements.

With the demonstrated cases the author describes a reliable method to ensure predictability of both the surgical treatment and the prosthetics even in complicated situations.