

## Intelligent Software Solutions from Implant Planning to the Final Restoration

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Dental technology is becoming more and more digital. Especially in the field of dental software engineering, there has been enormous progress over the last years. Virtual planning and designing of dental prosthesis has become an indispensable factor in modern dentistry and dental technology. These new technologies have the capacity to result in greater accuracy, speed and efficiencies leading to improvement in patient care. Furthermore, computer-based guided implant surgery is minimally invasive and requires a shorter chair time and fewer appointments than traditional methods.

There are a lot of CAD-software programmes available on the market. The difficulty of choosing the right one lies in the fact that the programmes work well on their own, but not in combination with other software components. Therefore, the dental technician has well-working single software components, but the linking elements that allow a combination of individual software packages and thus a continuous digital workflow are missing.

In his lecture, MDT Antonio Corradini from the South Tyrolean company Zirkonzahn, will explain and demonstrate Zirkonzahn's recently upgraded CAD-software. The software has been developed with the aim to put together a software package in which all the existing software programmes are linked together to provide the user with a complete solution within a single software.

By demonstrating the single software modules and their distinctive features, he will describe new possibilities in treatment planning that allow not only to bring the patient data from the analogue into the digital environment but they result also in a better cooperation with the dentist. Taking the example of the implant planning software this means that the implants can now be placed on the basis of the modelled teeth (known as backward planning) and the patient receives an immediate restoration (immediate loading). It is the dentist's job to plan the implants while the dental technician produces the drilling template, the custom impression tray, the models as well as the provisional.

In this context, he will also mention the PlaneSystem® for capturing and identifying the patient individual occlusal plane and any associated natural asymmetries with the aid of the Natural Head Position (NHP) and the ala-tragus plane. Together with the Face Hunter 3D facial scanner used for photo-realistic 3D digitisation of patient faces, it guarantees a planning reliability for the dental technician and the patient, as the tooth restoration can be realised based on the patient's physiognomy, taking into account bone asymmetries and resulting muscular compensation.

Antonio Corradini will present innovative solutions achieved by modern CAD/CAM technology, show different patient cases and different material options and explain eventual encountered difficulties during the realisation of the cases.

Furthermore, he will speak about Zirkonzahn's broad training programme and about the importance of continuing education.