

User Case Abstract

Reliable planning for an optimal workflow

Part of creating an optimal workflow involves the ability to reliably plan for variables that differ with each patient. 3D imaging gives the clinician the ability to view anatomical structures not seen in two-dimensional images. The following case study involving a male patient in need of a restoration shows the advantages of utilizing 3D imaging and an integrated digital workflow.

Methods

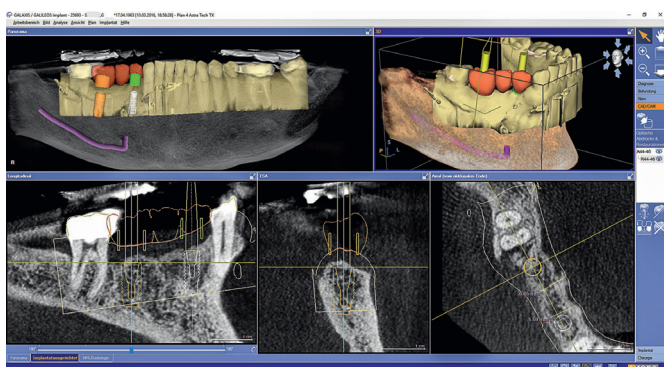
In this case, an Orthophos SL 3D from Dentsply Sirona was used for both panoramic and DVT scans. Digital impressions of the patient were taken with a CEREC camera and implant planning took place within the Galileos Implant software. For guided surgery, the team used CEREC Guide 2 milled in-house at their dental laboratory on an inLab MC X5 milling machine.

Case Study

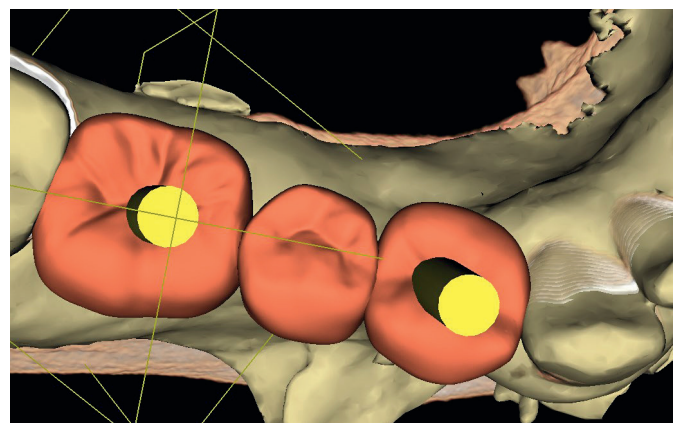
A 52-year-old male patient presented to our practice with gap in the area of teeth 45-47. He wanted this area restored. We used the Orthophos SL 3D to take a panoramic scan for planning purposes.

The patient opted for a treatment plan involving the insertion of two implants and then an implant-supported bridge. Digital imaging, combining DVT with CEREC optical impressions were used to plan the implant surgery in Galileos Implant software. The software creates an implant proposal as well as enables planning of the alignment of the prosthetic. The ability to plan and perform virtual surgery allowed the team to maximize safety and minimize risk. CEREC Guide 2 was chosen in the treatment plan and then milled in our practice to use during surgery.

An additional DVT image was made in the Orthophos SL's Low Dose Mode as a check post-implantation. We chose hybrid abutments on ti-base for the final restoration.



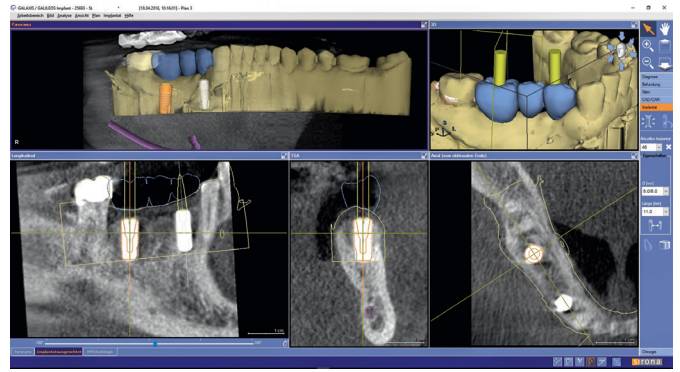
Matching of Orthophos SL 3D data with the prosthetic proposal in Galileos Implant.



Prosthetic alignment of the implant in planning.

Summary

Reliable planning makes for an efficient treatment while helping to minimize risk. 3D imaging is an important part of creating a solid plan and the integrated digital workflow offered by using the Orthophos SL along with relevant planning software saves time for the practitioner and is also efficient for the patient by reducing the number of times he/she has to come to the practice.



By means of a low-dose recording, the implant was checked three-dimensionally.

Contact

Günther Schmidhuber
PR Manager
+43 662 2450566
Guenther.Schmidhuber@dentsplysirona.com

Author

Dr. Gerd Frahsek, Carolin Müller
Hüserstr. 7a, 42555 Velbert
Germany

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