

Aesthetic outcome with zirconium abutments

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A 28-year-old female patient came to the dental clinic with a traumatic injury. According to the oral examination tooth 11 had a vertical fracture. Thereupon the tooth was extracted and the space was temporarily restored with a Maryland bridge. As the patient was reviewed three months after extraction the defect was built up with a bone graft, taken from the right mandible angle, to gain an oral reconstruction for aesthetic and functional reasons.

Five months postoperatively the insertion of an Ankylos implant A 11 with a fractional palatinal position occurred.

A primary wound closure was achieved and the Maryland bridge was refitted. After a healing period of about 2 months a second operation was performed to expose the implant.

Hereafter the space was restored with a chair side provisional crown fastened on an Ankylos-Standard-Abutment to perform bone-training and to shape the emergence profile.

As the impression was taken an implant cast was manufactured. Thereafter a fitting of the post occurred. To ensure that the gum mask had the same dimension as the intraoral situation stated. Besides a small Cercon balance post was chosen to gain a preeminent aesthetic result without any dark colouring shining through the marginal gingiva. Subsequently an index key was constructed using Pattern resin which is utilized to transfer the post intraoral.

After the fitting a scaffolding-zirconiacap was manufactured using a CAD/CAM System. A further fitting in the patient's mouth is not necessary as the zirconia-cap is made directly on the abutment, which alleviates the procedure for the dentist. Ensuing the zirconia-cap is veneered with Cercon Ceram Kiss ceramic. Thereafter the crown was fitted in.



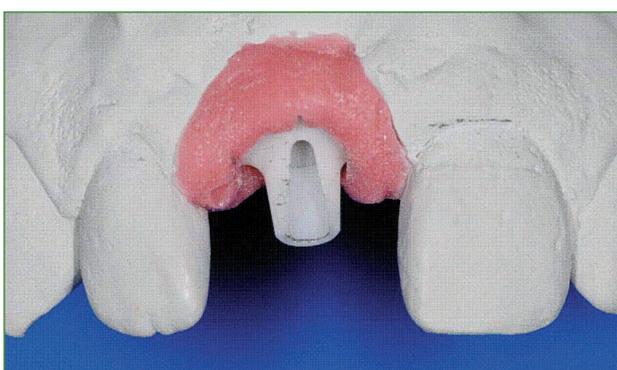
Maryland bridge before



exposing the implant.



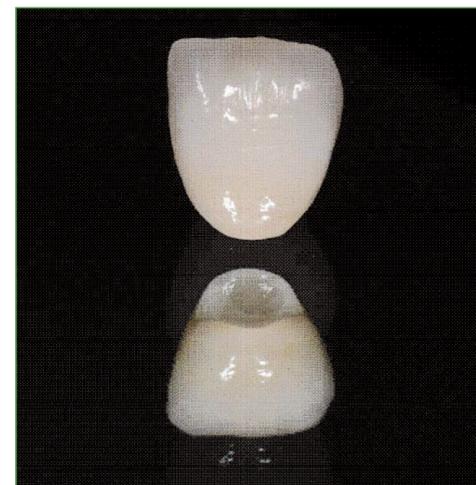
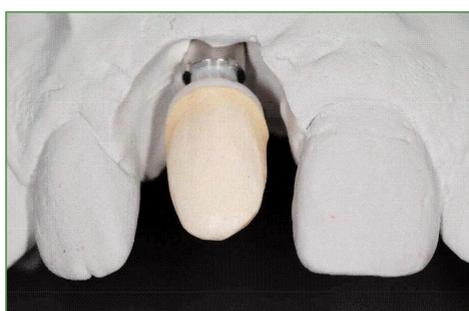
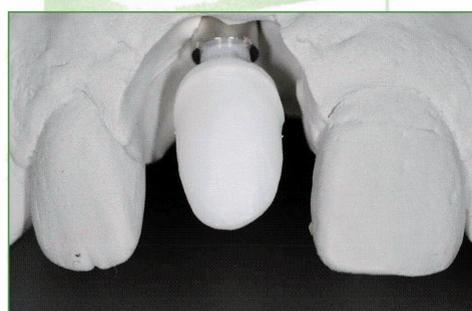
chair side provisional crown on an Ankylos-Standard-Abutment



The customized abutment



Index key from Pattern resin



zirconia-cap, veneered with Cercon Ceram Kiss ceramic



transmission of the abutments with the index key in the mouth



sealed with gutta-percha

Due to the provisional crown the gingiva is already formed hence a painless fitting can be achieved. After waiting four weeks a perfect result regarding the soft tissue can be achieved including a perfect high end aesthetic picture 3,5 years after restoration.



immediately after insertion of the definitive crown



perfect highend aesthetic 3,5 years after restoration