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Atlantis® CustomBase Solution with angulated screw access – a prosthetic solution for optimal esthetic and functional outcome

A 40 year old male was referred to the clinic due to Crown fracture of the central incisor tooth 11. The tooth was treated partially endodontically by the referring dentist due to tooth trauma. The dental team suspected the presence of micro-cracks and vertical root fracture and planned extraction of the tooth 11 and immediate dental implant installation. After the healing phase, the final screw-retained restoration was fabricated using Atlantis CustomBase Solution with angulated screw access.



1. Pre-treatment clinical situation.
Thick gingival biotype.



2. Radiographic image of the pre-treatment situation did not show any sign of infection.



3. Preparation for immediate implant installation after tooth extraction. 4 mm deeper socket preparation. The drill follows the socket angle and is placed along the palatal wall to get free space buccally.



4. Immediate installation of Dentsply Sirona Astra Tech Implant EV Profile Ø4.2 – 13 mm with a good primary stability.



5. Situation right after implant- and healing component – HealDesign™ Profile EV – Ø 5.0 – 3.0 mm height-installation.



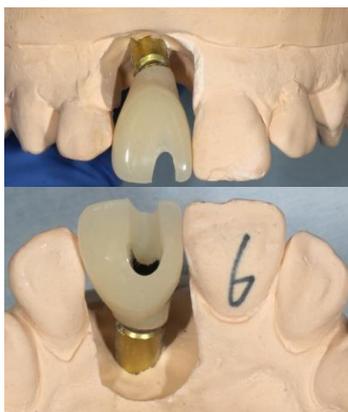
6. 4 months after implant installation. The patient did not want to use any kind of temporary restoration solutions.

Atlantis® CustomBase Solution

Case Report



7. Impression taking at the implant-level with Implant Pick-Up Profile EV – Long and open tray technique to fabricate a temporary implant crown.



8. Temporary composite implant crown fabricated using Temporary Abutment Profile EV 4.2. The screw hole is not palatally situated.



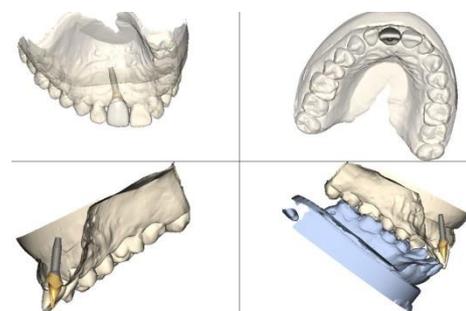
9. Clinical situation 6 weeks after temporary implant crown installation. The incisal edge of the tooth 21 was corrected with composite.



10. Nice emergence profile provides a good esthetic result for the final restoration.



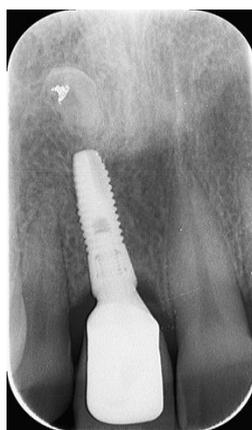
11. Impression is taken using open tray technique and the created emergence profile is transferred to the model.



12. An Atlantis CustomBase Solution with Atlantis Core file and angulated screw access was designed and ordered consisting of an Atlantis abutment in gold-shaded titanium and a zirconium oxide crown – Sagemax NexxZr T.



13. The dental technician finalized the solution inserting the Atlantis Abutment Screw (Hexalobular) before cementing the Crown (extraorally).



14. An intraoral radiographic image taken after seating the final restoration with a 25 Ncm torque.



15. Facial view with final excellent esthetic result. The angulated screw access allows the screwdriver access channel to be angled up to 30 degrees off the implant/abutment axis to achieve an optimal implant restoration in terms of esthetic, function and patient satisfaction.