Simplant®

AstraTech Implant System®

Atlantis®



Digital assisted precise planning and manufacturing of a fixed dental restoration



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A 66-year-old female patient presented with several decayed, fractured and supraerupted teeth in the upper jaw.

The patient required a fixed prosthetic restoration. This superstructure had to be fixed to implants as well as natural teeth and therefore was in need of a very stable and precisely fitting framework.

Extraction of the hopeless teeth and socket preservation grafting were performed. Five OsseoSpeed EV implants were placed; the two in the molar region were angled by 30 degrees. Afterwards a restoration with high-strength zirconia framework and a precise cutback for the veneering porcelain was digitally designed and fabricated. The patient was very satisfied with the fit and esthetic outcome of the bridge.

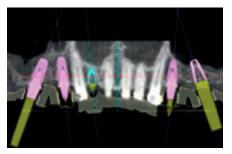




1. Pre-treatment clinical situation.



2. Intraoral condition three months after extraction and grafting.



3. Simplant software for planning the implant positions.



4. Simplant Guide for the first drilling steps.



5. Color-coded HealDesign EV in place.



6. Implant Pick-Ups EV in position.





7. After impression taking, the interfaces of the impression posts were revealed in the impression.



8. Color-coded Implant Replicas EV are assembled to the Implant Pick-Ups EV in the impression.

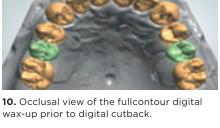


11. Atlantis patient-specific abutments with corresponding screws.



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12. Full-contour CAD/CAM PMMA provisional restorations.





14. Atlantis patient-specific abutments installed.



15. Clinical situation on the day of final restoration.



13. Healthy and clean implant sulcus evident

at all of the sites to be restored.

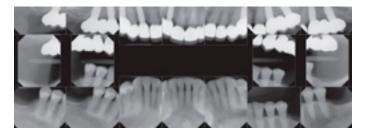
16. The maxillary arch restoration with occlusal and interproximal zirconia.



17. Facial view revealing natural looking restorations in place on both teeth and



18. A lateral view displaying healthy periimplant and gingival tissues.



19. Radiographs of implants in the molar, premolar and lateral positions, along with the remaining natural dentition.



20. The patient's smile following maxillary arch reconstruction of her remaining natural teeth and implants.

