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Single maxillary premolar replacement with immediate loading using Astra Tech Implant System OsseoSpeed EV® and Azento®

A 64 year old, healthy, non smoking woman, referred to clinic for replacement of tooth 25, lost because of chronic periodontitis. Patient earlier treated with implants in 2010 for replacement of teeth 14,15 and 24 lost by chronic periodontitis.

Tooth 25 was extracted October 2018, after a healing period of 4 months, CBCT (Sirona) and intraoral scan (Cerec Omnicam) for Azento® planning was performed. The use of guided surgery helped to obtain ideal anatomic position for screw- retained restoration. The customized immediate provisional made it possible to shape the mucosa for an optimal esthetic and functional outcome. Five months after implant installation a rescan was done and the final screw-retained implant crown was delivered.



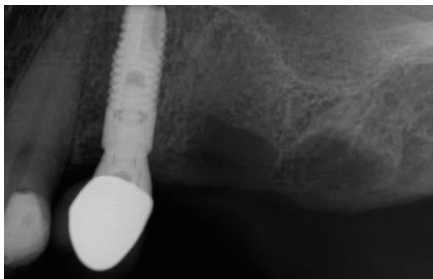
1. Patient in supportive-periodontal-treatment (SPT) for the last ten years, now missing tooth 25 and want it replaced.



2. Pre-operative occlusal view of the upper jaw. Healed site regio 25, showing an optimal width of the crista for implant placement.



3. Optimal vertical dimension for placing an implant crown.



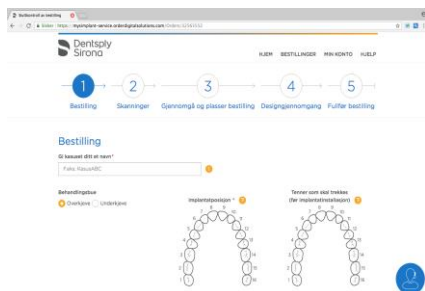
4. Pre-operative x-ray after healing, 3 months after extraction of teeth 25 and 26. Limited bone height from crista to sinus maxillaris regio 25.



5. Intraoral scan using CEREC Omnicam scanner.



6. View of patient CBCT in Sidexis software



7. Intraoral scan (STL-file) and CBCT (DICOM-file) uploaded and sent to Dentsply Sirona Implants for planning.



8. Treatment proposals received after a few workdays.



9. Simplant® SAFE guide with perforations to assure exact placement.



10. Implant installation; Dentsply Sirona Astra Tech OsseoSpeed® EV 4.2 S, 8 mm. Insertion torque 35 Ncm.



11. Immediate installation of temporary screw-retained crown (PMMA/ Atlantis® Gold Shaded Abutment) designed 1,5 mm out of occlusion.



12. Post op X-ray. The Atlantis® Gold Shaded Abutment unsure the desired emergence profile of the temporary crown and shape of the mucosal seal.



13. Occlusal view of mucosal conditions before placing the permanent crown. Intraoral scan with ATLANTIS® IO FLO 4.2 for permanent crown



14. Permanent crown; Zirconia layering technique on buccal side, Atlantis® Gold Shaded Abutment. Torque 25 Ncm.



15. Occlusal view with permanent crown.



16. X-ray with permanent crown.

This case report is published as an inspiration for you as a clinician / technician and not necessarily as a recommendation from Dentsply Sirona.