Implant placement and screw-retained temporary crown in one day

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Case Presentation

Presented is the case of a 45 year old male with missing central incisor, tooth #9. The patient was scanned with the Galileos 3D Conebeam system to determine quality and quantity of bone. After the treatment plan presentation, the patient decided to move forward with implant surgery.

A radiographic template was fabricated and the patient scanned wearing the template via the Galileos 3D Conebeam system. With the created 3D scan the treatment plan was created and a surgical guide ordered using Galileos Implant Planning software and the radiographic template.

On the day of surgery, the patient is administered topical and local anesthesia and the SICAT surgical guide is placed in the patient’s mouth. Fully seated positioning of the surgical guide is checked by the practitioner.

The flapless procedure is started using the Nobel Guide Start drill, cutting the tissue into a tissue plug which is removed. The 2.0 mm drill guide is inserted into the guide sleeve and the 2 mm twist drill with a drill stop set to depth is used to begin the osteotomy. The 3.2 mm drill guide is inserted into the guide sleeve and the 3.2 mm twist drill with a drill stop set to depth is used to enlarge the osteotomy. Per the Nobel Speedy protocol, the osteotomy is completed by screw tapping the site. The Nobel Speedy Groovy 4.0 x 11.5 mm implant is mounted onto the implant driver and placed to the planned depth and torque. The implant is then loaded immediately with a temporary screw-retained crown.

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Pre-op Galileos 3D Conebeam scan of patient wearing the SICAT scan template. Implant planned via Galileos Implant Planning Software.

Longitudinal, TSA and Axial view of planned implant
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SICAT Surgical Guide seated in patient’s mouth

Noble Biocare Guided Start Drill

2mm Nobel sleeve inserted with drill in position

3.2mm drill inserted into surgical guide

Screw tap for Speedy protocol

Implant is mounted and seated
Soft tissue plug removed and bone mill used
Titanium temp abutment positioned
Titanium abutment seated
Erkodent vacuform with luxatemp placed over abutment to create screw-retained temporary crown
Temporary crown is tried in

Implant is mounted with Nobel Guide Soft Tissue Plug to prevent tissue from collapsing

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Erkodent vacuform is placed over abutment and guide pin

Luxatemp is placed into vacuform

Temporary crown in mouth

Temporary crown placed out of occlusion

Temporary crown polished and cleaned

SICAT Clinical Case Presentation - Dr. Daniel Marinic, USA