CLINICAL CASE



All-on-4® treatment concept

Enrico Agliardi Italy



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Patient

65, female, fully edentulous in both jaws

Clinical situation Wearing total removable dentures

Surgical solution

All-on-4[®] treatment concept, NobelParallel[™] CC TiUltra[™] RP 4.3x13 mm, Multi-unit Abutment Xeal[™]

Restorative solution

NobelProcera[®] implant bar with composite teeth (planned)

Surgery date 23 September 2019

Total treatment time Approximately 7 months (April 2020) "Thanks to the new Xeal surface, I can get early soft tissue healing and sealing around the abutment. Xeal abutments are a must-have product for all clinicians performing immediate loading procedures."



Initial clinicalSurgicalRestorativeOutcomesituationprocedureprocedure



Front, side and profile images of the fully edentulous patient. Note the lack of lip support because of the bone resorption.

Surgical procedure Restorative procedure

Outcome



Intraoral view with removable dentures in both maxilla and mandible

Moderate ridge resorption with estimated bone quality of D3 to D4 in the maxilla and D2 to D3 in the mandible

Surgical procedure Restorative procedure

Outcome





Occlusal view of the maxilla

Mandible showing unfavorable ridge form

Surgical procedure Restorative procedure

Outcome

Maxilla





Making a palatal incision for flap elevation

Full-thickness flap elevation in the maxilla

Surgical procedure Restorative procedure

Outcome

Maxilla



Preparing the osteotomy in the midline using a Ø 2 mm Twist Drill for insertion of the All-on-4[®] Guide Confirming angulation with the direction indicator

Placing the All-on-4[®] Guide for predictable positioning of implants

Surgical procedure Restorative procedure

Outcome

Maxilla



Twist Drill in the posterior

Placement of NobelParallel CC implant with TiUltra[™] surface

Implant inserted until collar

Implant inserted in the posterior

Surgical procedure Restorative procedure

Outcome

Maxilla



Opposite side: posterior osteotomy preparation and implant placement

Use of Multi-unit Aligning Instrument to find the suitable Multi-unit Abutment angle

Surgical procedure Restorative procedure

Outcome

Drill protocol



Anterior implants: Steps of the osteotomy preparation

Surgical procedure Restorative procedure

Outcome

Maxilla



Multi-unit abutments Xeal™

Initial clinical	Surgical	Restorative	Outcome
situation	procedure	procedure	

Maxilla



Flap closure and suturing

Surgical procedure Restorative procedure

Outcome

Mandible



Raising the flap in the mandible

Isolation of alveolar nerve

Surgical procedure Restorative procedure

Outcome

Mandible



Making an osteotomy in the midline using a Ø 2 mm Twist Drill for insertion of the All-on-4[®] Guide Evaluating the direction of the osteotomies using direction indicators

Occlusal view of the osteotomies

Surgical procedure Restorative procedure

Outcome

Mandible



Implant insertion in posterior positions

Surgical procedure Restorative procedure

Outcome

Mandible



All implants placed

Closing and suturing the flap

Healed soft tissue around Multi-unit Abutments Xeal™

Case courtesy of Dr. Enrico Agliardi 16/26

Surgical procedure Restorative procedure

Outcome







Courtesy of Enrico Agliard

Courtesy of Enrico Agliardi





Courtesy of Enrico Agliardi

Immediate provisional prostheses, planned before surgery in articulator after facebow registration

Prosthesis finalized after the surgery before delivery to the patient

Surgical procedure Restorative procedure

Outcome



Healed maxilla and mandible. Note the healthy soft tissue 2 weeks after surgery.

Surgical procedure Restorative procedure

Outcome



2 months after implant insertion and placement of Temporary Snap Copings on Multi-unit Abutment Xeal™

Surgical procedure Restorative procedure

Outcome







Finalization of the temporary prosthetic. Occlusal view shows Temporary Coping access holes blocked

Initial clinicalSurgicalRestorativeOutcomesituationprocedureprocedure



13 months after implant insertion

Surgical procedure Restorative procedure

Outcome



13 months after implant insertion with the final prostheses

Surgical procedure Restorative procedure

Outcome







Final prostheses 13 months after implant surgery.

Surgical procedure Restorative procedure

Outcome









Before treatment

After rehabilitation with the All-on-4[®] treatment concept

Smile close-up before (top) and after rehabilitation of the patient with the All-on-4[®] treatment concept (bottom)

Surgical procedure Restorative procedure

Outcome



13 months after surgery

Case courtesy of Dr. Enrico Agliardi



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