

CLINICAL CASE



N1™ Base Anterior case

Dr. Francesco Mintrone





**DANIELA
RUBIANI**

Patient

51-year-old female, poor oral hygiene, abrasion of the anterior teeth.

Clinical situation

Impacted teeth 18, 48, 38. Deep fracture 21.

Surgical solution

Extraction and implant placement on 21.

Restorative solution

Veneers on 11. Crown on implant on 21.

Surgical treatment

January 18 2021

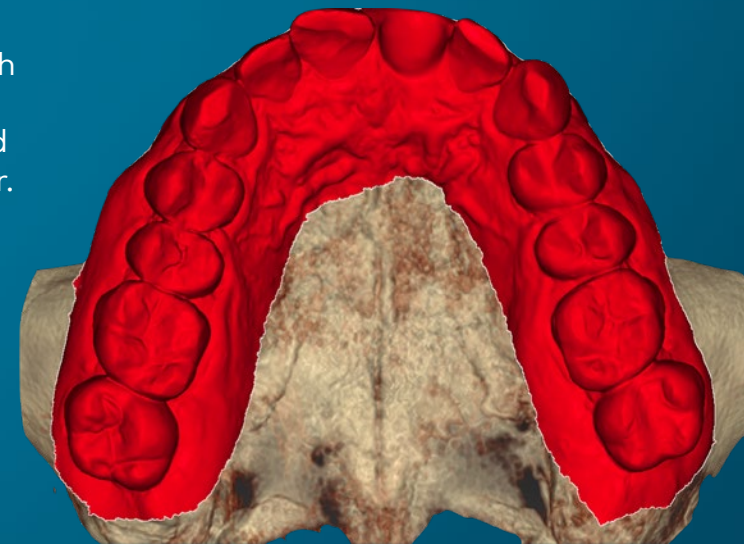
Rehabilitation delivery

June 7 2021

The request of the patient was to replace the fractured tooth and improve her smile, while minimizing the costs.

Before starting surgical procedures, we decided to take care of the oral hygiene and periodontal situation. This enabled us to work in a healthy environment at the time of tooth extraction and implant placement.

Immediate loading was performed on 21 with a socket shield technique. After the osseointegration of the implant, we decided to proceed with the digital approach to place the final restoration on the implant and a veneer on the other central incisor.



DANIELA RUBIANI: 51-year-old female

ESTHETIC ANALYSIS



Initial clinical
situation

Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Deep fracture of 21 and severe abrasion of 11



**Initial clinical
situation**

**Treatment
planning**

**Surgical
procedure**

**Restorative
procedure**

Outcome

Tooth residue of 21



Initial clinical
situation

Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Preoperative orthopantomagram. Incongruous fillings on all four maxillary incisors and impacted teeth 18, 38, and 48. Not visible: periapical lesions at tooth 21.



Initial clinical
situation

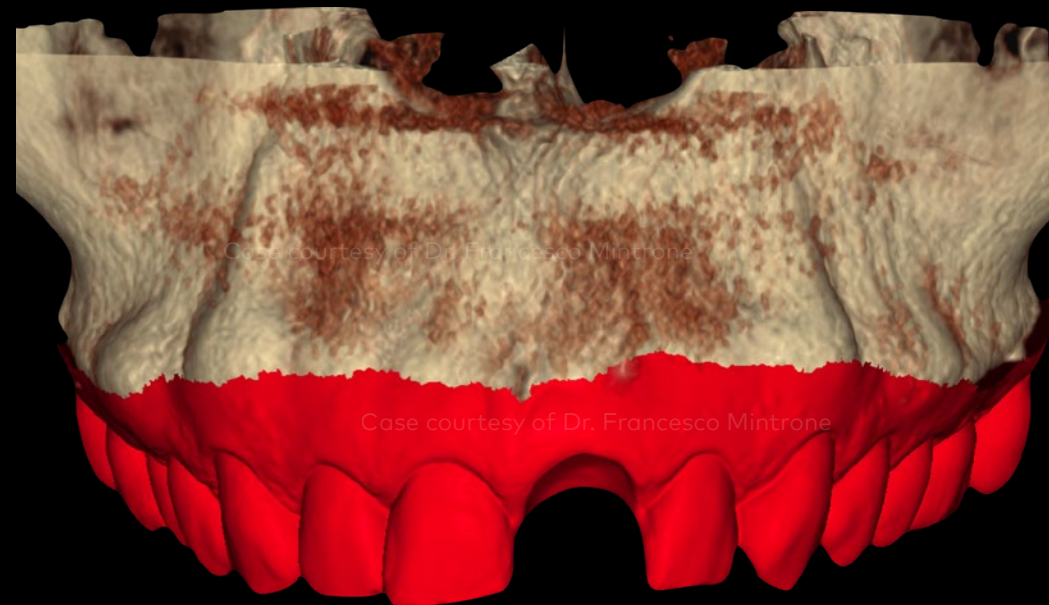
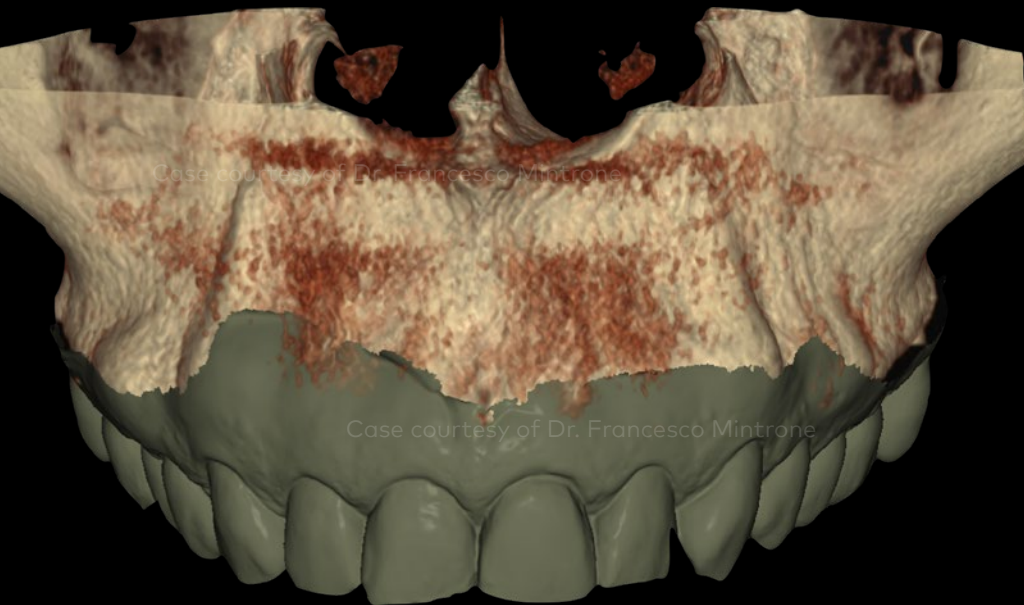
Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Evaluation of the case with DTX™ Studio suite software



Initial clinical
situation

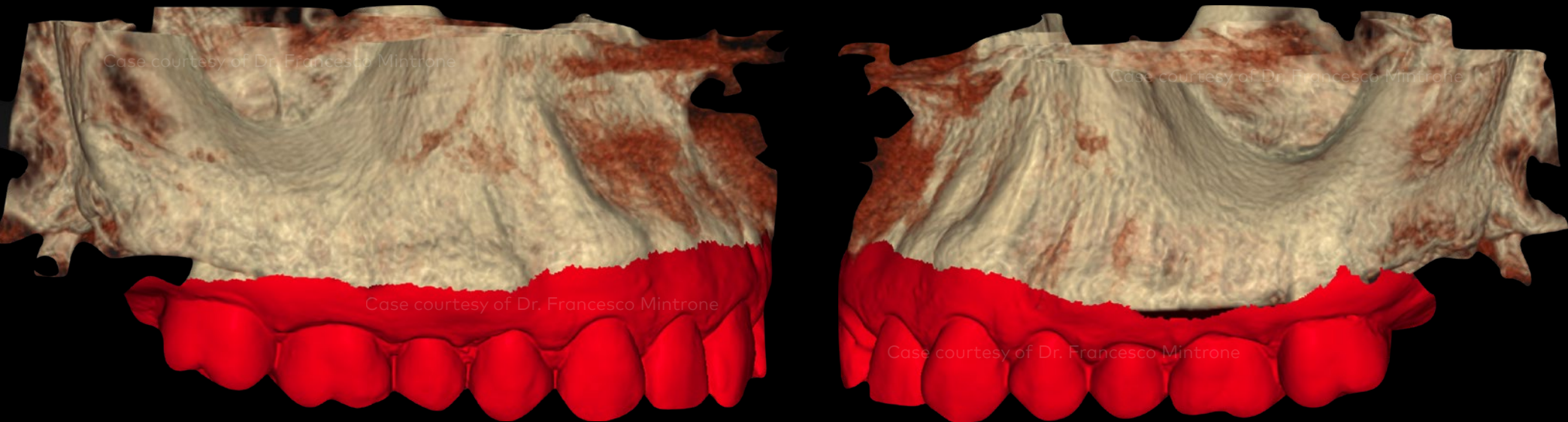
Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Evaluation of the case with DTX™ Studio suite software



Initial clinical
situation

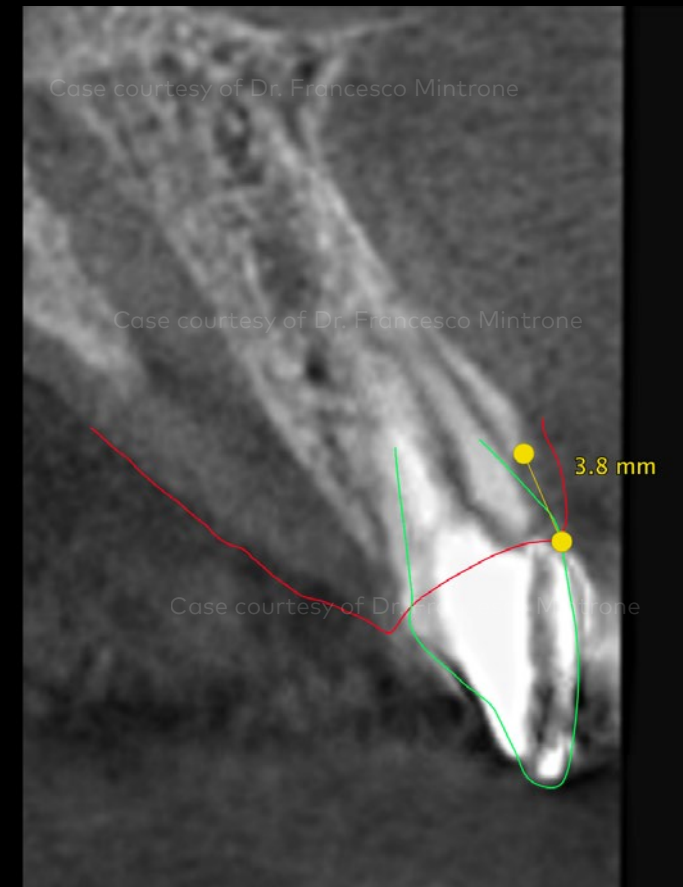
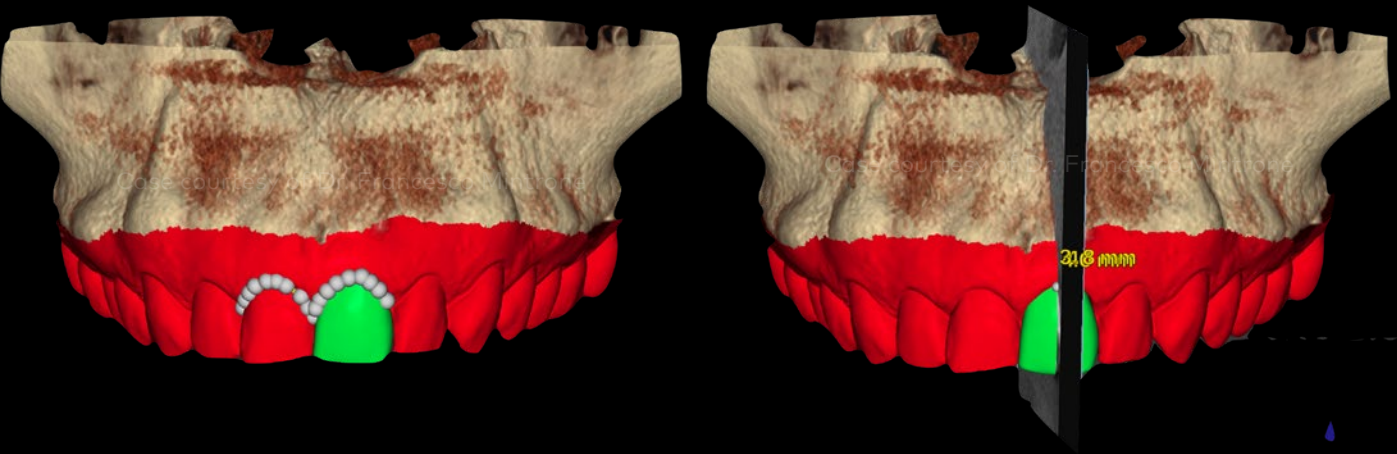
Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Evaluation of the ideal position of the free gingival margin including crestal bone level assessment



Initial clinical
situation

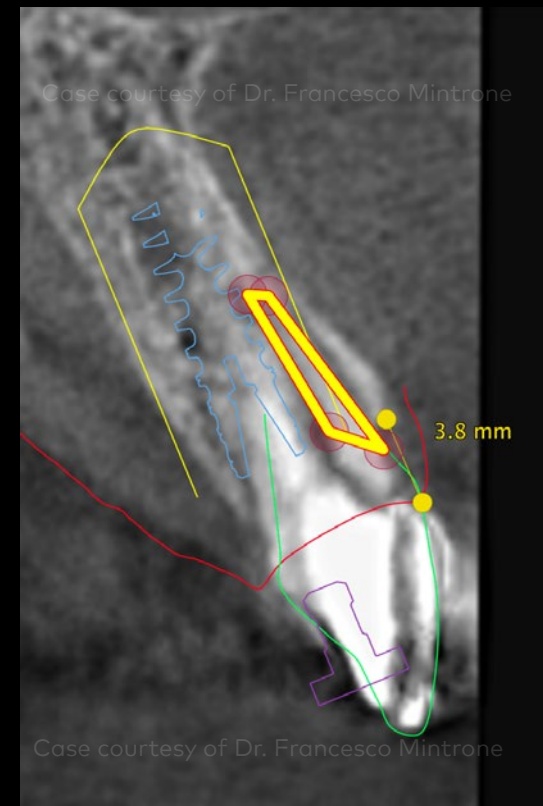
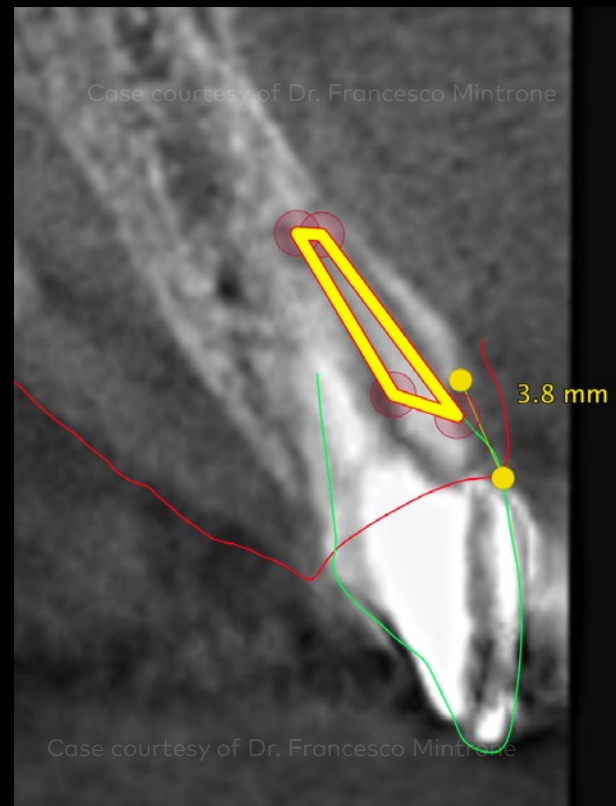
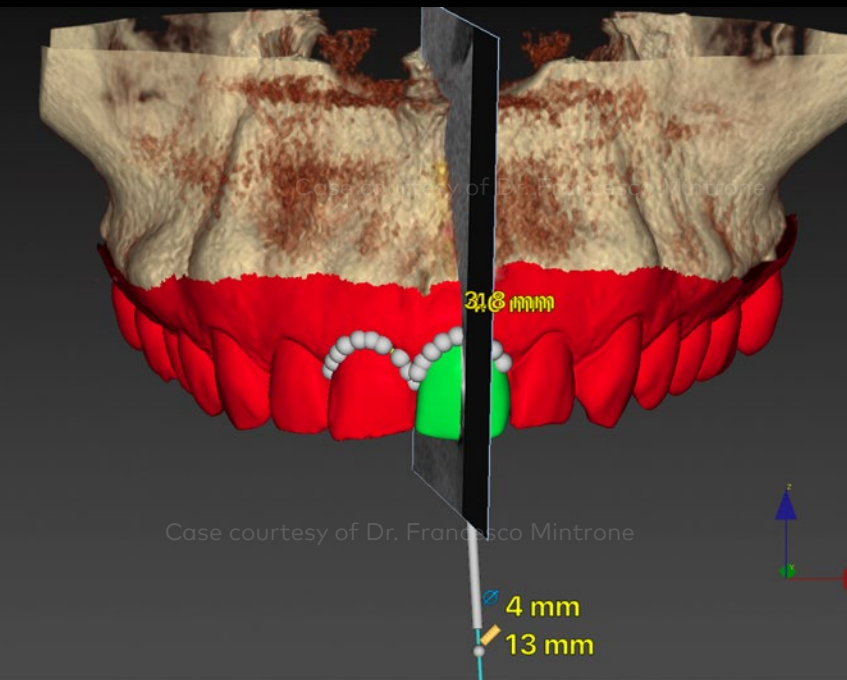
Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Evaluation of the socket shield approach to preserve the buccal bone volume



Initial clinical
situation

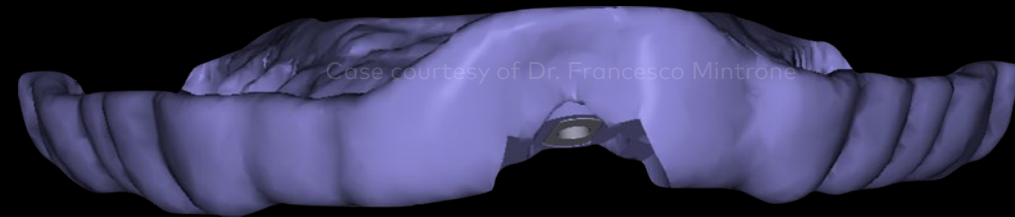
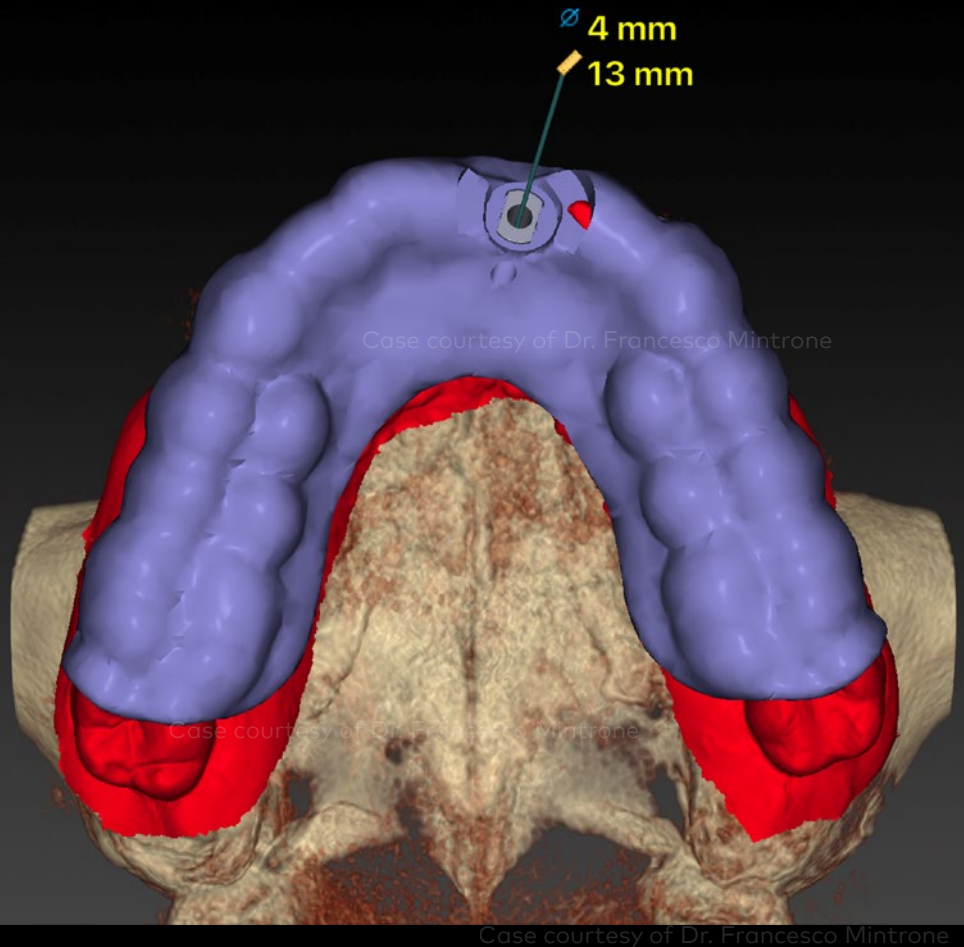
Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Surgical guide for the 2 mm drill



Initial clinical
situation

Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Provisional prosthesis and soft tissue healing after 90 days



Initial clinical
situation

Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Peri-apical x-ray where the N1 Base and bone stability are visible



Initial clinical
situation

Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Mock-up to evaluate the prosthetic profile of the future rehabilitation



Initial clinical
situation

Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Minimally invasive preparation of the veneer on 11, and intraoral scanning



Initial clinical
situation

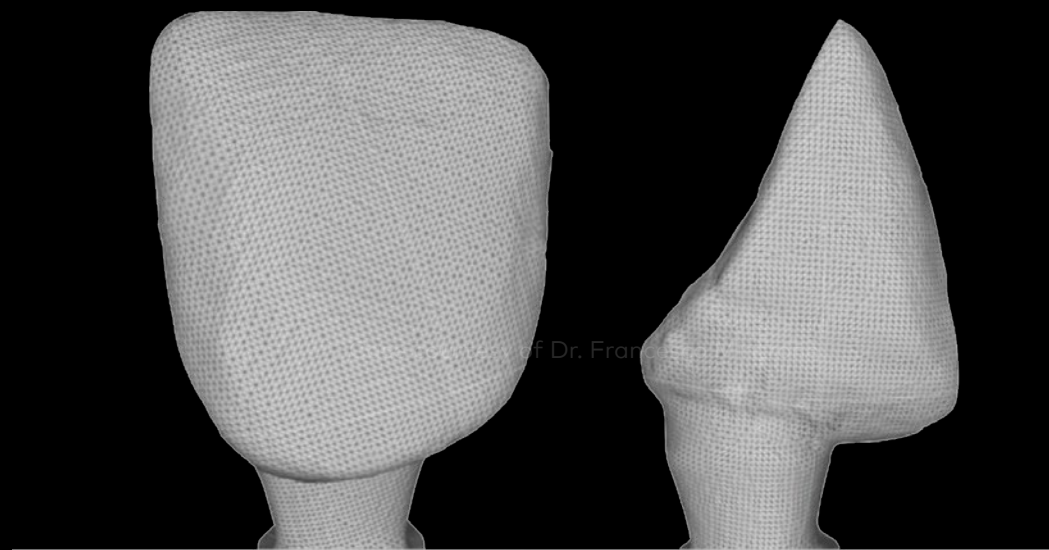
Treatment
planning

Surgical
procedure

Restorative
procedure

Outcome

Intraoral scan



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

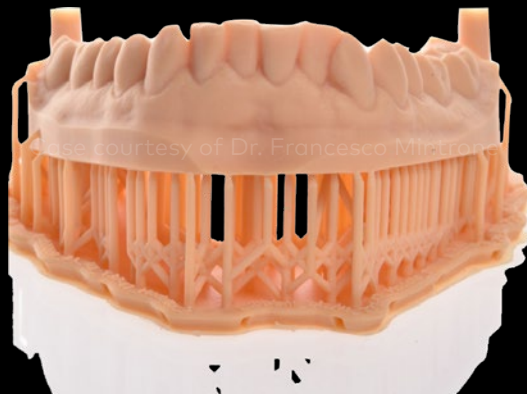
Outcome

Digital approach

Formlabs 3



Master model



Removable gingiva



Odt. Mr. Franco Pozzi & Mr. Ateicos Quintavalla
Laboratorio Pozzi Franco & C. s.n.c.
Parma Italy

Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Digital approach

Formlabs 3



Master model



Removable gingiva



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Digital approach



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

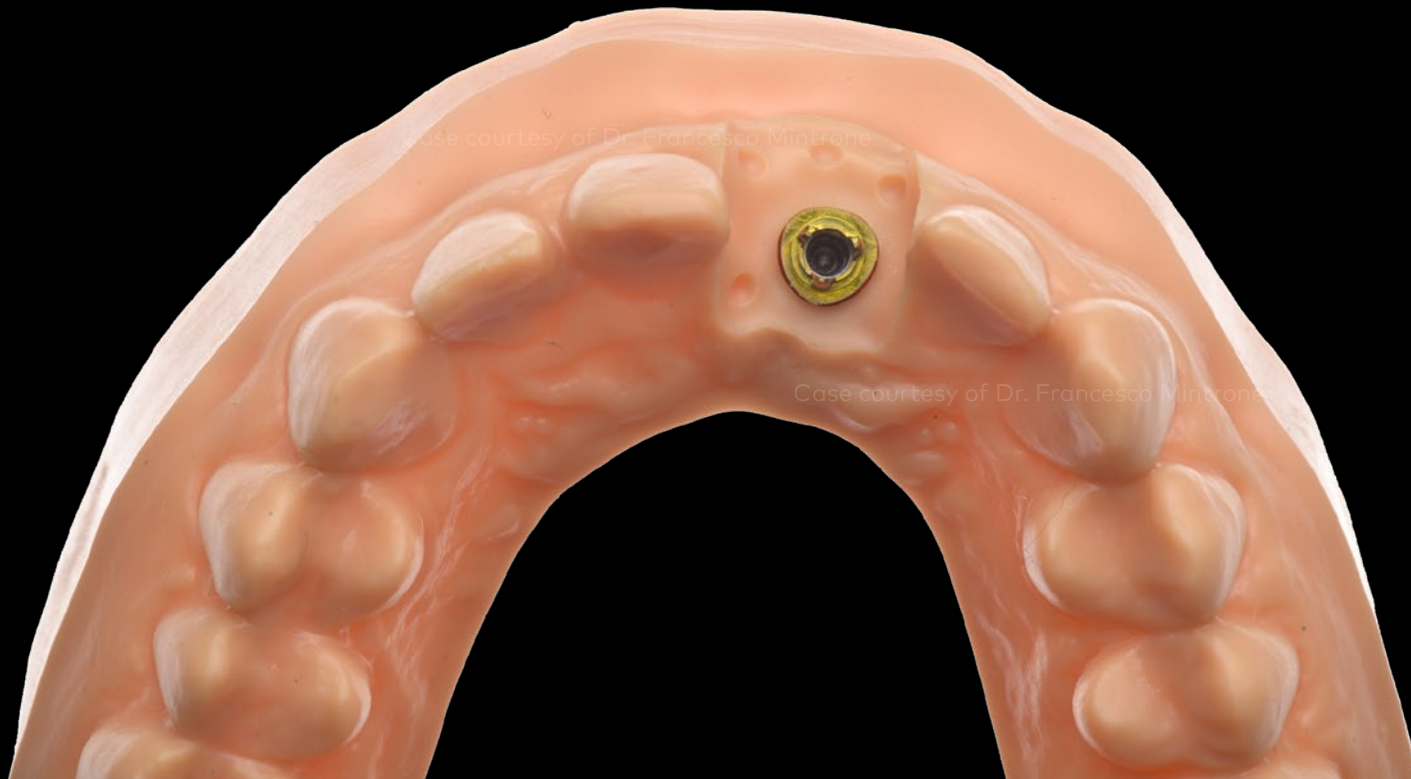
Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

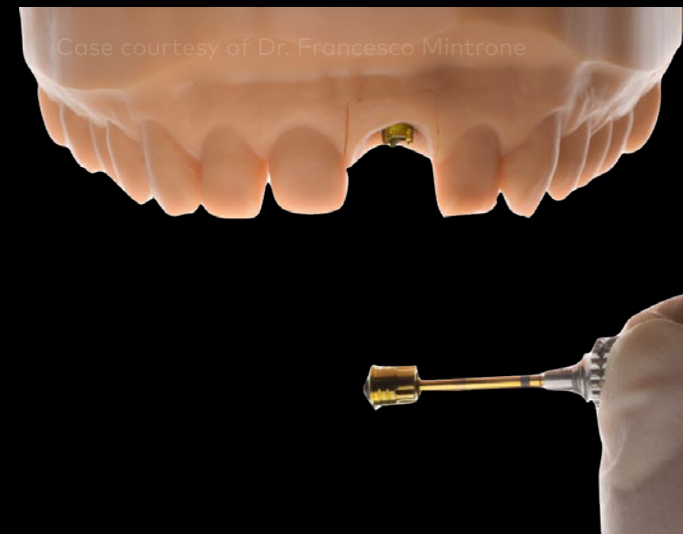
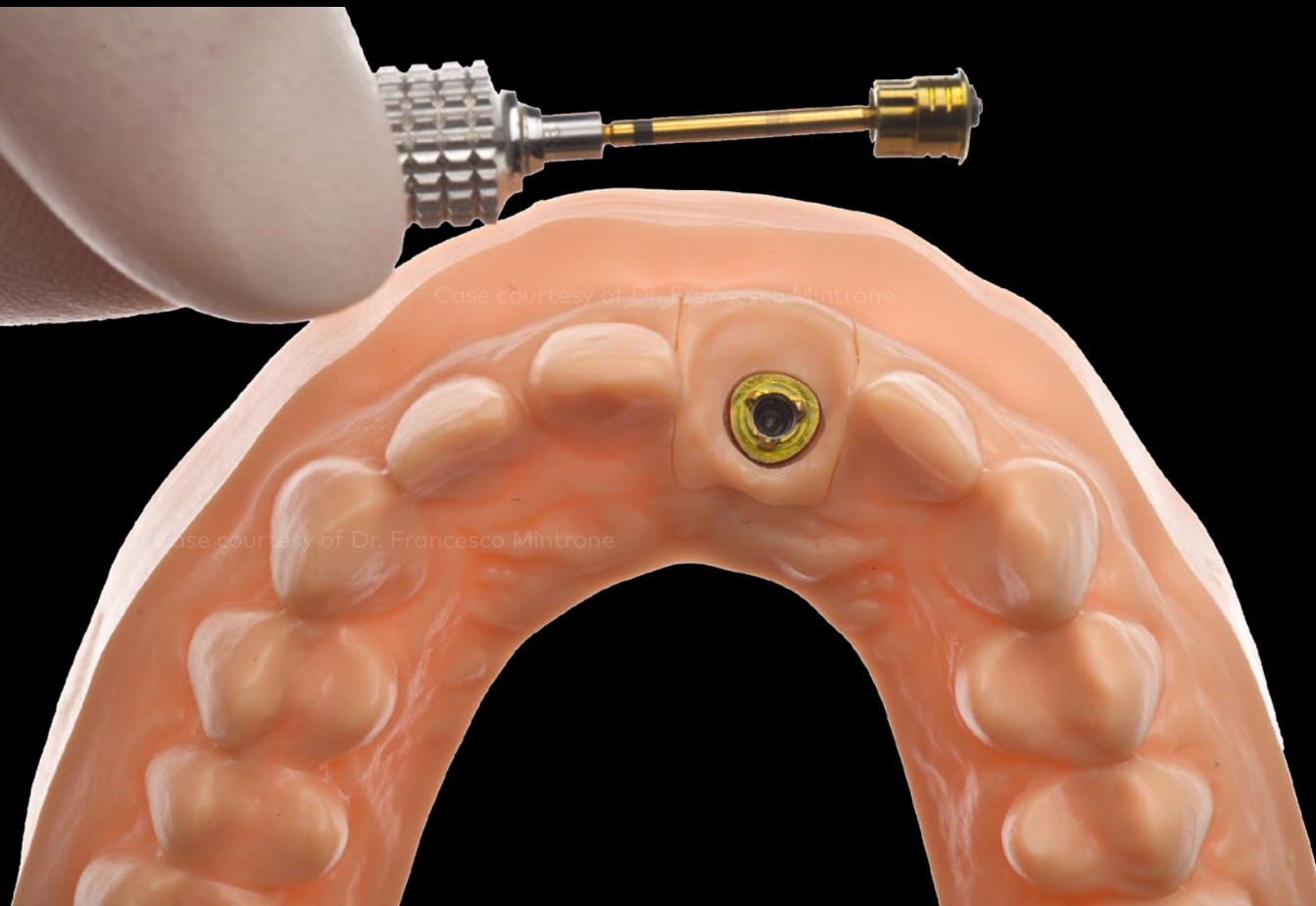
Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

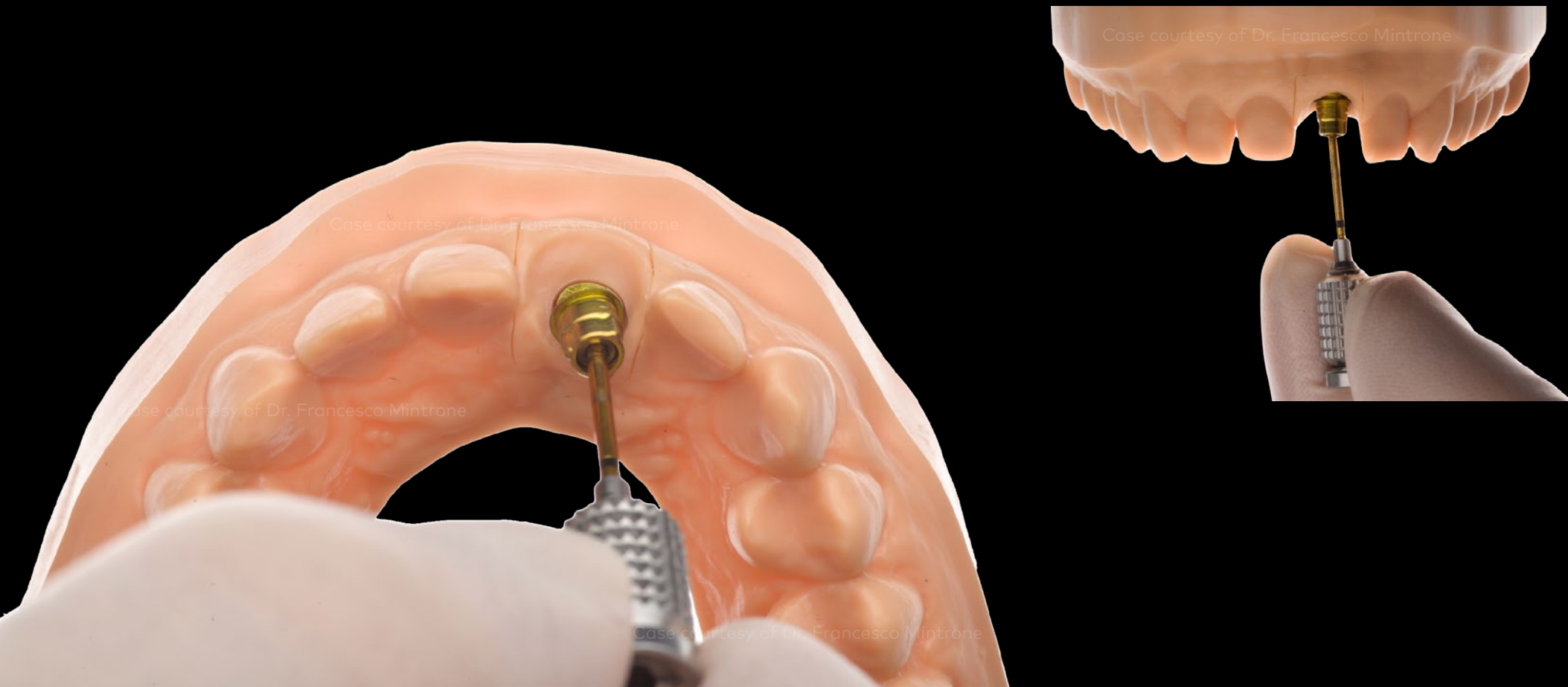
Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

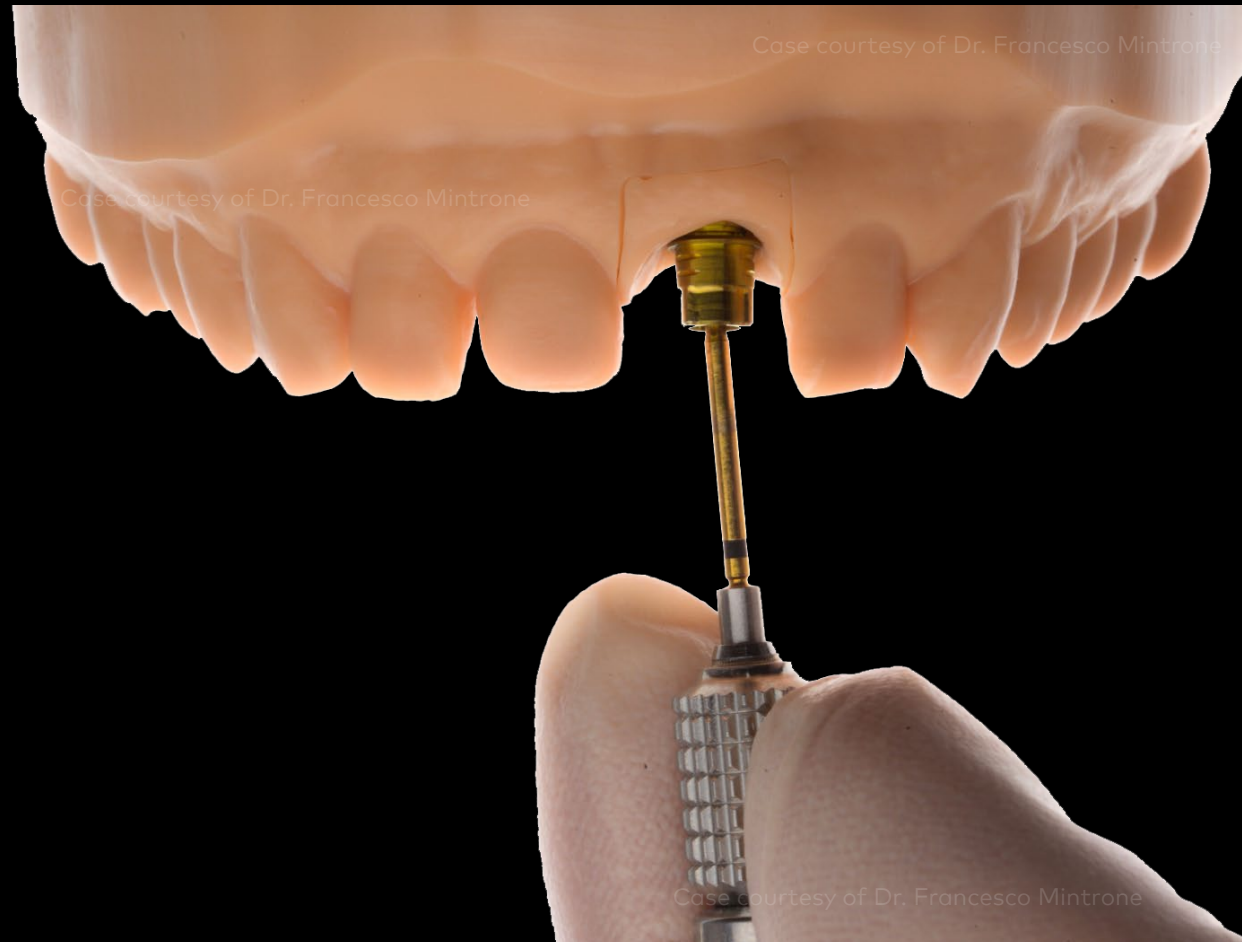
Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Insertion tool for IOS implant replica Nobel Biocare N1 NP and RP



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Zirconia stamp to simplify the esthetic result



Initial clinical
situation

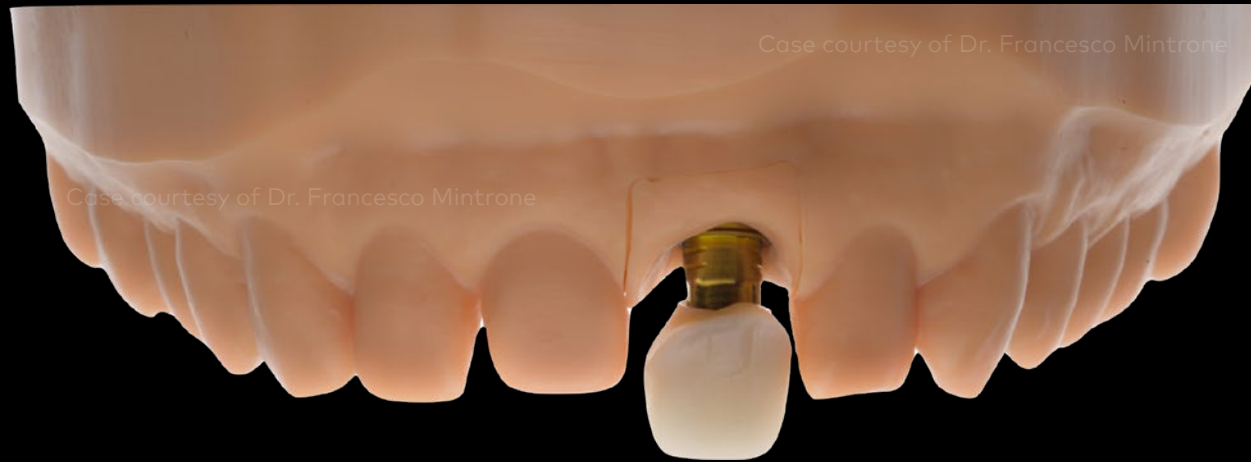
Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Zirconia stamp to simplify the esthetic result



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Zirconia stamp to simplify the esthetic result



Case courtesy of Dr. Francesco Mintrone

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Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Double approach with a zirconia stamp plus veneers cemented on top to simplify the esthetic result



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Good soft tissue stability around N1 base before the final delivery



Case courtesy of Dr. Francesco Mintrone

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Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Good esthetic integration of the final rehabilitation



Case courtesy of Dr. Francesco Mintrone

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Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Good esthetic integration of the final rehabilitation



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Soft tissue stability



Initial clinical
situation

Treatment
planning

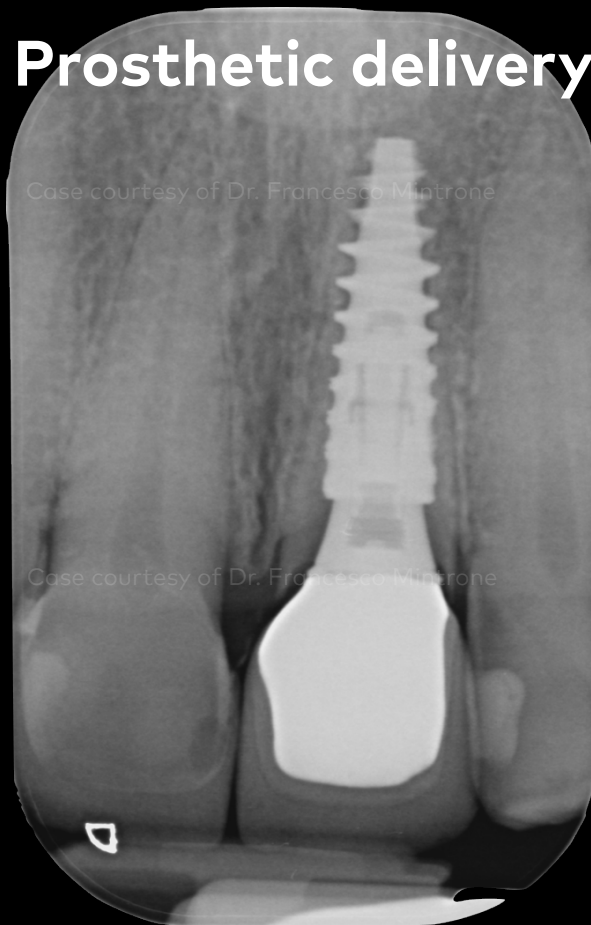
Surgical
procedure

Laboratory
procedure

Outcome

Peri-apical x-ray

Prosthetic delivery



3 months post delivery



Initial clinical
situation

Treatment
planning

Surgical
procedure

Laboratory
procedure

Outcome

Good esthetic integration of the final rehabilitation



Case courtesy of Dr. Francesco Mintrone



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