





Alfonso Caballero de Rodas

#### **Patient**

46 years old, female, no significant diseases

## Clinical situation

Broken tooth #15. The fracture is subcrestal, and the tooth cannot be restored

## Surgical solution

Tooth extraction and immediate implant placement with immediate loading

## **Restorative solution**

Screw-retained temporary acrylic crown, directly connected to the implant

# Surgery date

October 5th, 2020

**Tooth position** #15

Nobel Biocare N1™ Implant with immediate placement in a fresh extraction socket. Atraumatic tooth extraction with immediate implant in a palatal position, then immediate loading using a temporary abutment screwed to the implant.



Treatment planning

Surgical procedure

Restorative procedure

Outcome



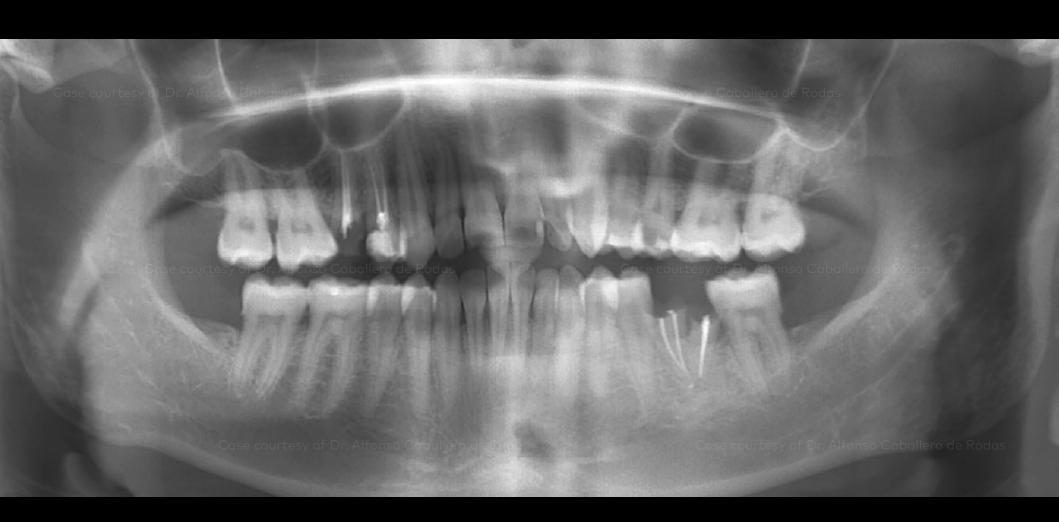
Situation before the surgery with a visible fracture of tooth #15

Treatment planning

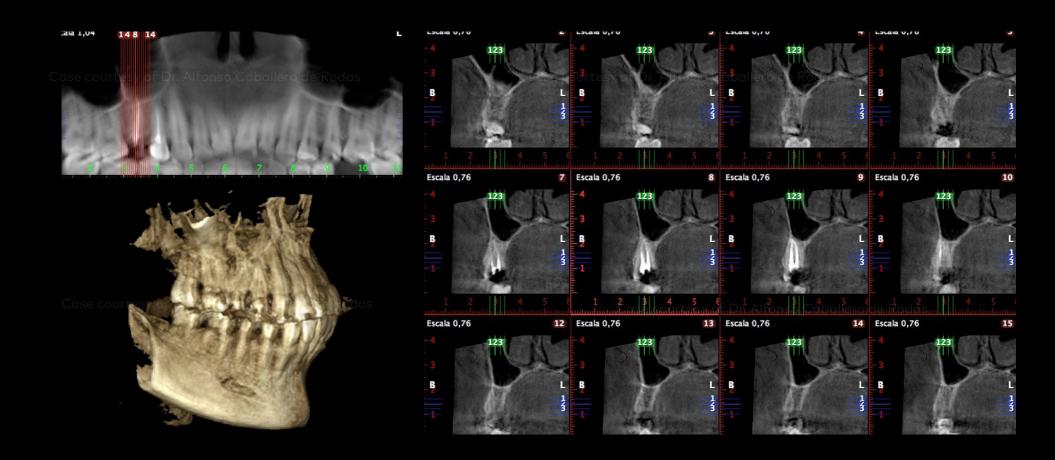
Surgical procedure

Restorative procedure

Outcome



Radiographic image at presentation showing crown fracture on tooth #15



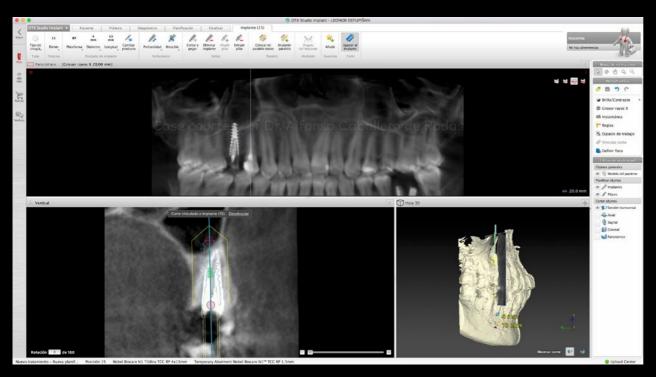
CBCT maxilla. Good bone foundation in 3 dimensions. No infections

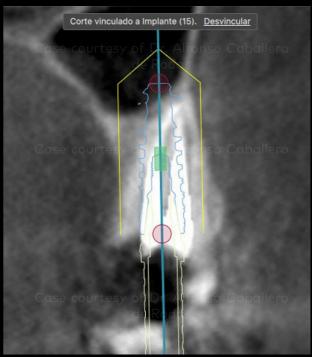
Treatment planning

Surgical

Restorative procedure procedure

Outcome





Digital treatment planning in DTX Studio™ Implant – 13 mm implant and temporary abutment

## Posición de diente 15

#### **Implante**

Fabricante Nobel Biocare® Nombre de producto N1 TiUltra TCC

Platform RP

Tamaño ø 4 x 13 mm REF 300863

#### Cirugía

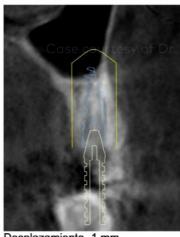
Tipo de cirugía Freehand

Pilar

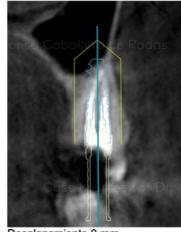
Pilar Temporary Abutment Nobel Biocare

N1™ TCC RP 1.5mm

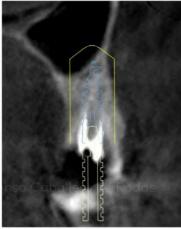
REF 300936



Desplazamiento -1 mm



Desplazamiento 0 mm



Desplazamiento +1 mm

#### Productos de implante

Pos.	Nombre de producto	Plataforn	na <b>T</b> amaño	Tipo de cirugía
15	N1 TiUltra TCC	RP	ø 4 x 13 mm	Freehand

## Productos del pilar

Pos.	Nombre de producto
15	Temporary Abutment Nobel Biocare N1™ TCC RP 1.5mm

DTX Studio™ Implant report:

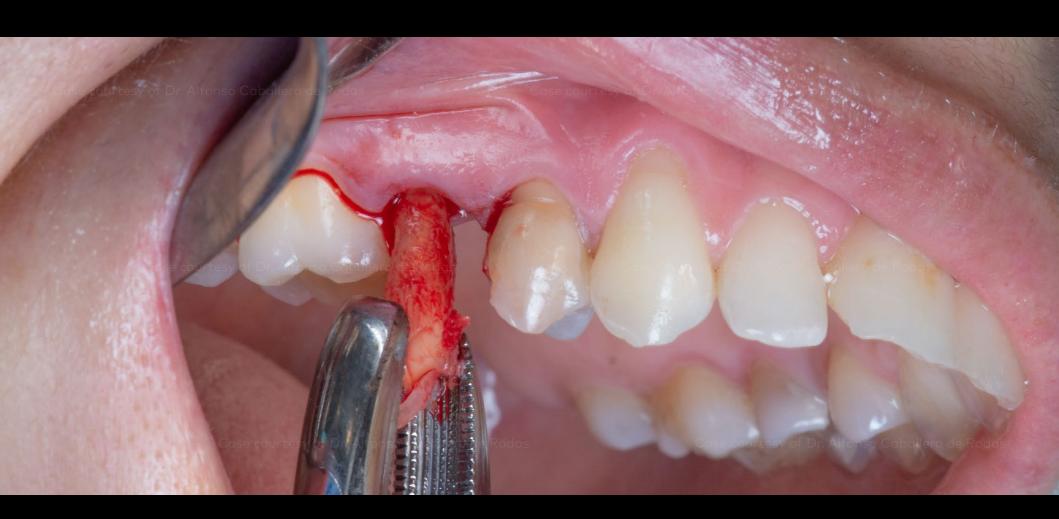
- Nobel Biocare N1™ TiUltra™ TCC RP 4 x 13 mm
- Temporary Abutment Nobel Biocare N1™ TCC RP 1.5 mm

Treatment planning

Surgical procedure

Restorative procedure

Outcome



Atraumatic tooth extraction

Treatment planning

Surgical procedure

Restorative procedure

Outcome





Verification of the extraction socket depth – confirmed 15 mm, sufficient to place the 13 mm implant

Treatment planning

Surgical procedure Restorative procedure

Outcome



First step in site preparation: The OsseoDirector™ instrument defines final implant position

Treatment planning

Surgical procedure

Restorative procedure

**Outcome** 



Second step: The OsseoShaper™ instrument operates at low speed 50 rpm and without irrigation. It creates a specific osteotomy for the co-packed Nobel Biocare N1™ Implant

Treatment planning

Surgical procedure

Restorative procedure

Outcome



View of the OsseoShaper  $^{\mathsf{TM}}$  instrument freshly removed from the site

Treatment planning

Surgical procedure

Restorative procedure

Outcome



Nobel Biocare N1™ Implant featuring the TiUltra™ surface

Treatment planning

Surgical procedure

Restorative procedure

Outcome





Nobel Biocare N1™ Implant placement

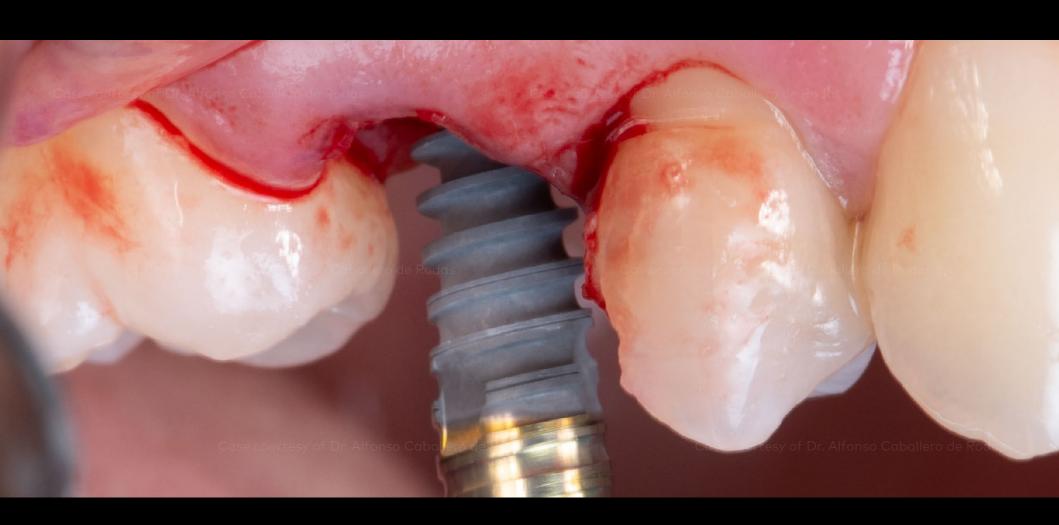
Nobel Biocare N1™ Implant insertion

Treatment planning

Surgical procedure

Restorative procedure

Outcome



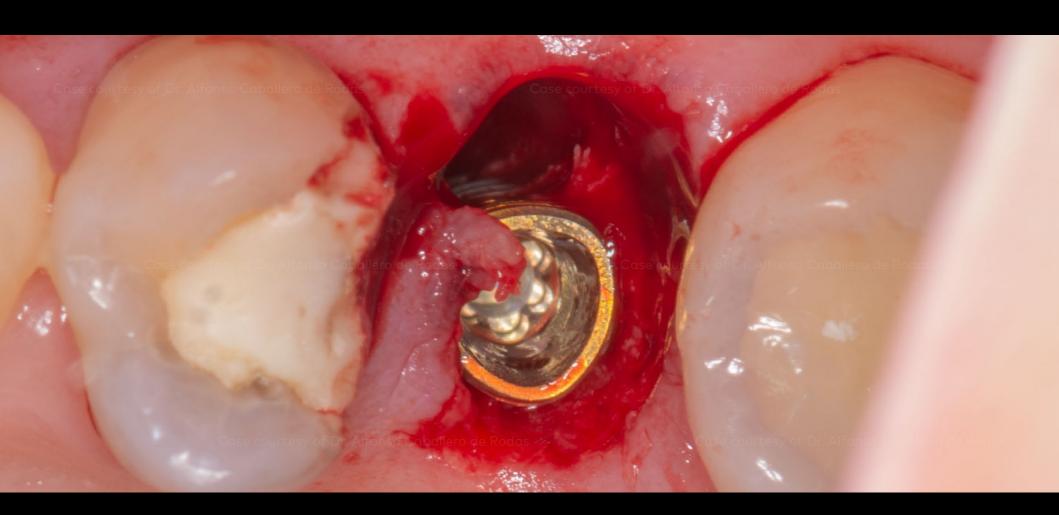
The Nobel Biocare N1™ Implant being placed in a fresh extraction socket

Treatment planning

Surgical procedure

Restorative procedure

Outcome



Occlusal view of the final implant position – flat side of the trioval conical connection (TCC) oriented towards buccal

Treatment planning

Surgical procedure

Restorative procedure

Outcome





Temporary Abutment TCC 1.5 mm connected directly to the implant

Temporary Abutment post reduced to the required height

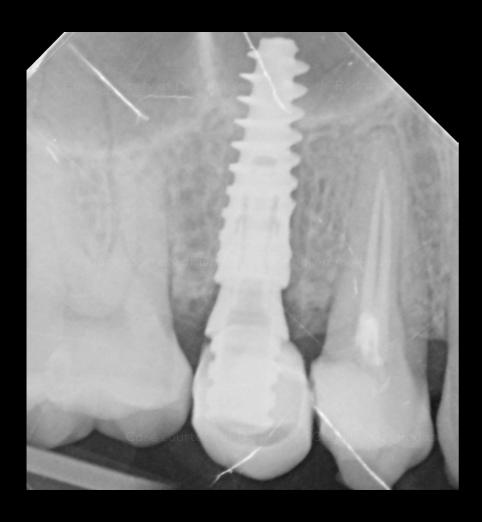
Treatment planning

Surgical procedure Restorative procedure

Outcome



Provisional restoration in place after occlusal clearance check





 $\ensuremath{\mathsf{X}}\text{-ray}$  of the implant with the provisional restoration at the day of surgery

Provisional restoration at the day of surgery

Treatment planning

Surgical procedure

Restorative procedure

Outcome



Lateral view 2 weeks post surgery. Tissue margin is stable

Treatment planning

Surgical procedure

Restorative procedure

Outcome



Tissue healing. We can see how transeptal fibers are healed and stable

## Case courtesy of Dr. Alfonso Caballero de Rodas



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