

Central incisor with tissue reconstruction with the Nobel Biocare N1™ concept Bilbao, Spain

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Patient

38 years, female

Clinical situation

Healed site in esthetic zone.
Compromised ridge vertically
and horizontally.

Surgical solution

Implant placement with GBR

Restorative solution

Single implant supported restoration

Surgery date

Bilbao, April 27, 2019

Total treatment time

1 year 2 months

Tooth position

11 (FDI), 8 USA

Implant placement in
the anterior zone with
ridge augmentation.



Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Healed site before the surgery



Large bone and soft tissue defect

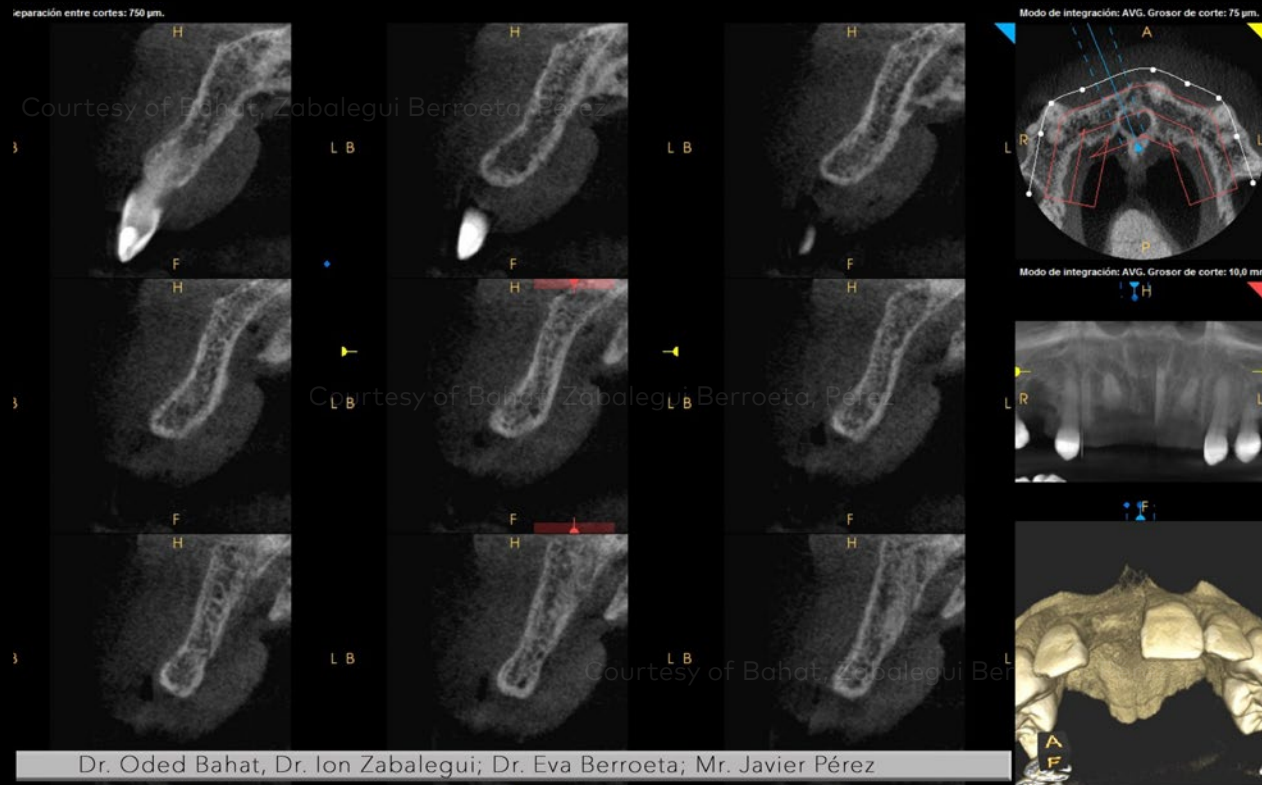
Baseline: Ridge atrophy with bone and volume deficiency

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Narrow long ridge. Prominent incisal foramen. Buccal concavity. Ridge flared to the facial.

CBCT Scan

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Try-in surgical guide



Marking of advanced flap

Surgical pre-planning

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Occlusal view of the narrow ridge



Check of implant position

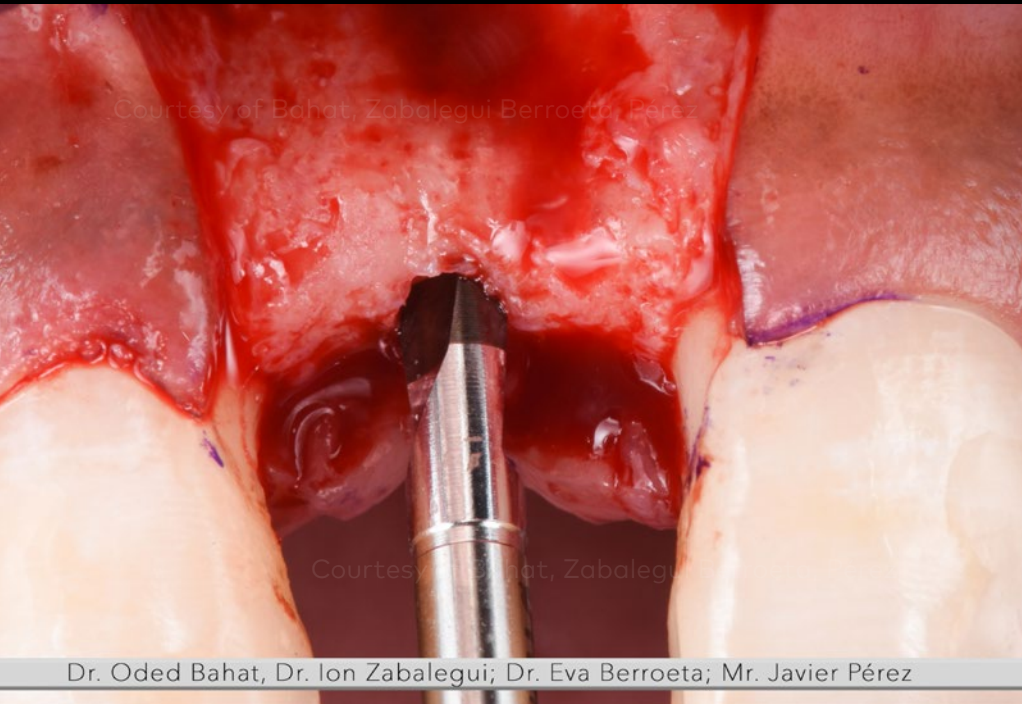
Direct

Initial clinical situation

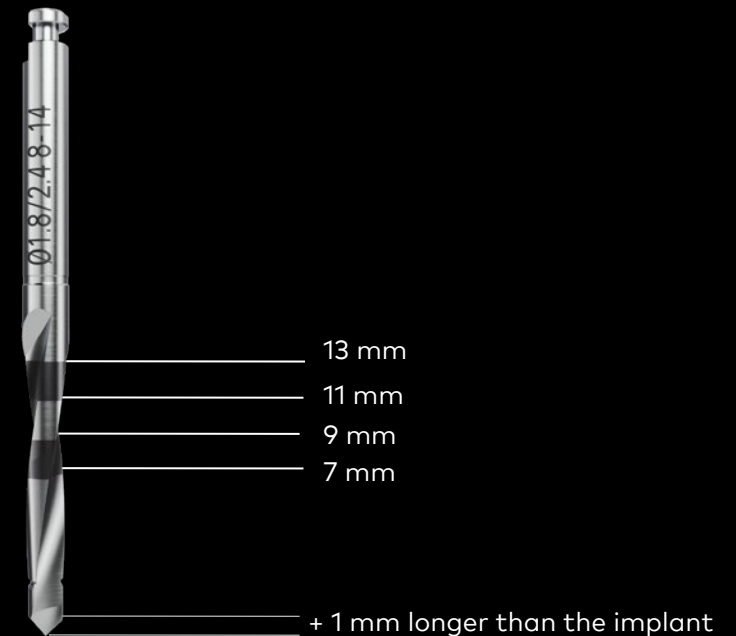
Treatment planning

Surgical procedure

Outcome

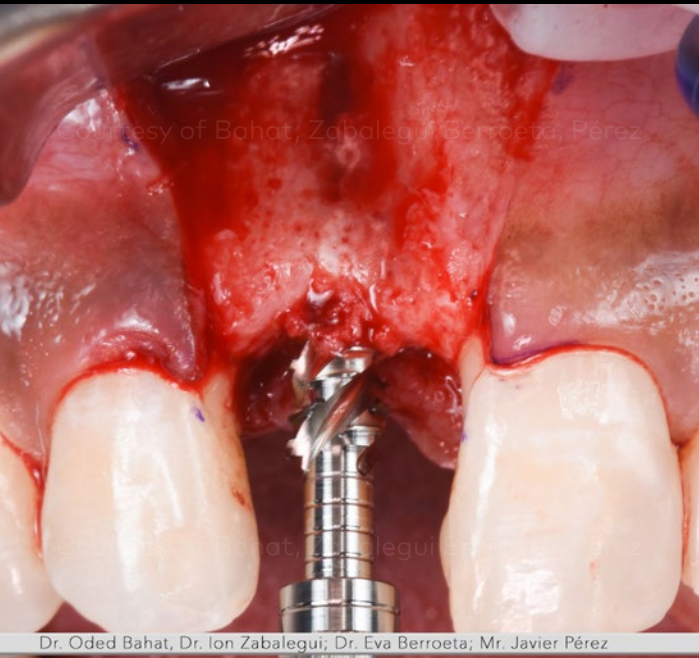


Check of depth of osteotomy with depth marking on the OsseoDirector™ instrument



Direct

Initial clinical situation



OsseoShaper™ instrument* at low speed (50 rpm) without irrigation

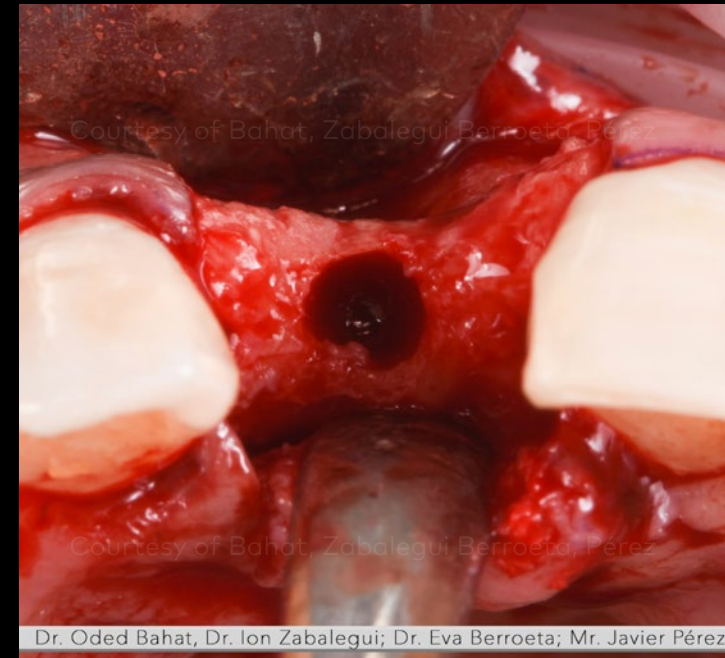
Treatment planning

Surgical procedure



OsseoShaper™ instrument* with bone chips

Outcome



Osteotomy created by the instrument

Direct

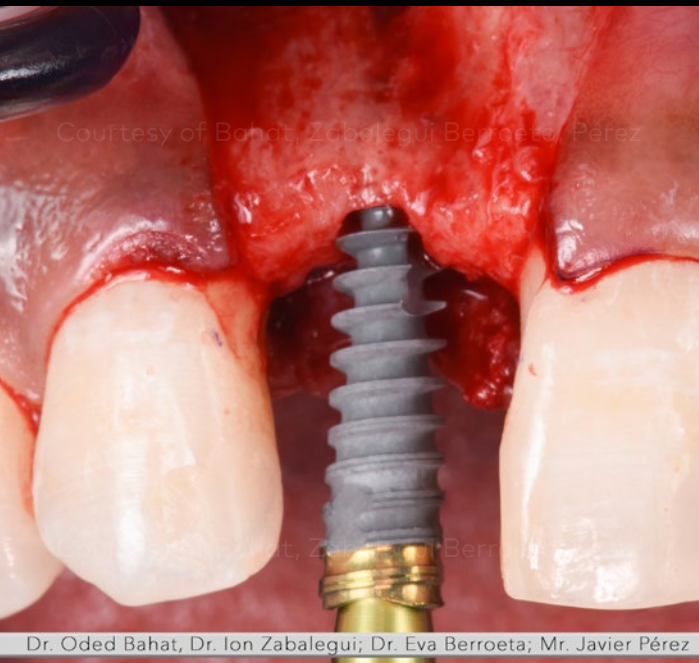
* In this clinical case the pre-launch version of the OsseoShaper™ instrument has been used: the "CS Soft Bone Gizmo". Black markings on the shaft and a 0.5 mm longer tip on the instrument are introduced on the final design of the OsseoShaper™ instrument.

Initial clinical situation

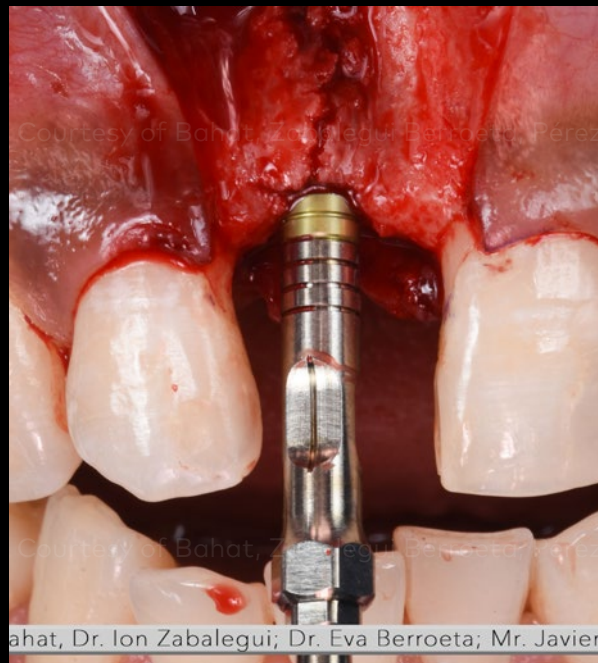
Treatment planning

Surgical procedure

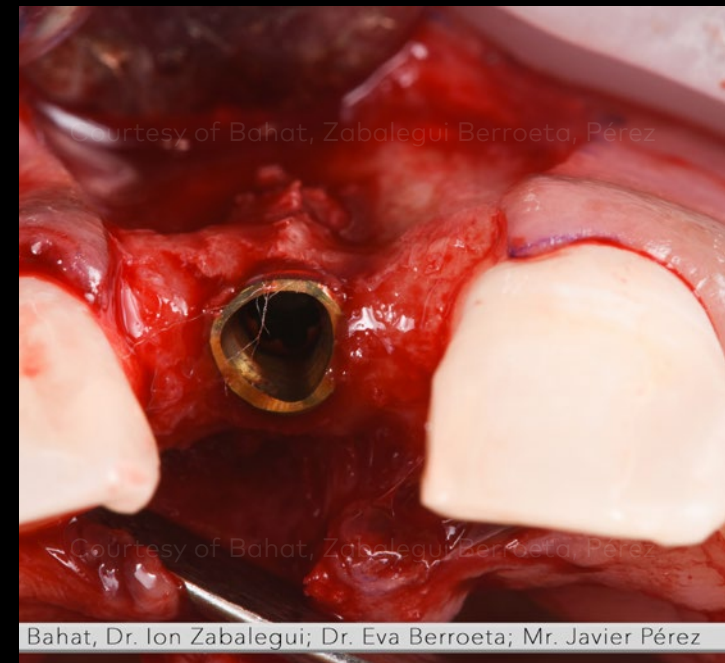
Outcome



Implant* of the Nobel Biocare N1™ concept is placed at osteotomy



Implant insertion torque to 55 Ncm

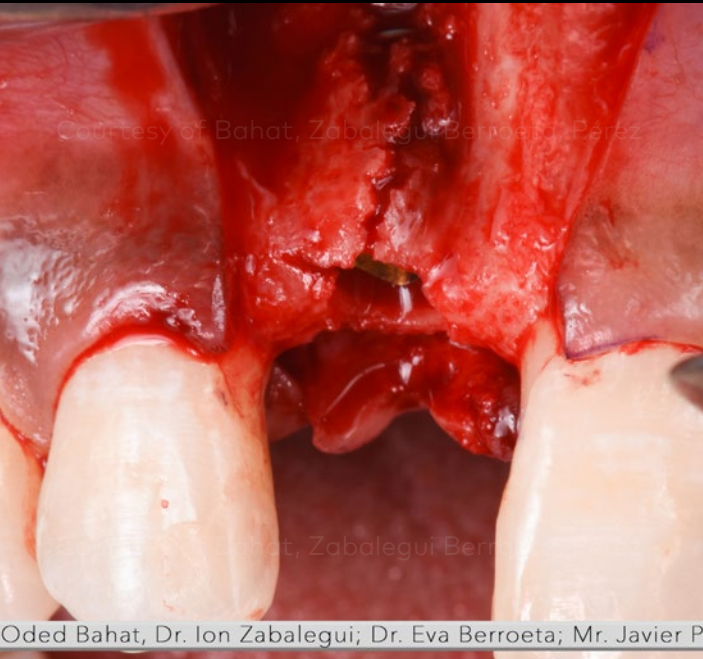


Occlusal view of implant in place

Place

* In this clinical case the pre-launch version of the Nobel Biocare N1™ implant has been used: the "CS Tiger Ultra Implant".
A flat platform is introduced on the final design of the Nobel Biocare N1™ implant.

Initial clinical situation



Fenestration and fracture of buccal plate

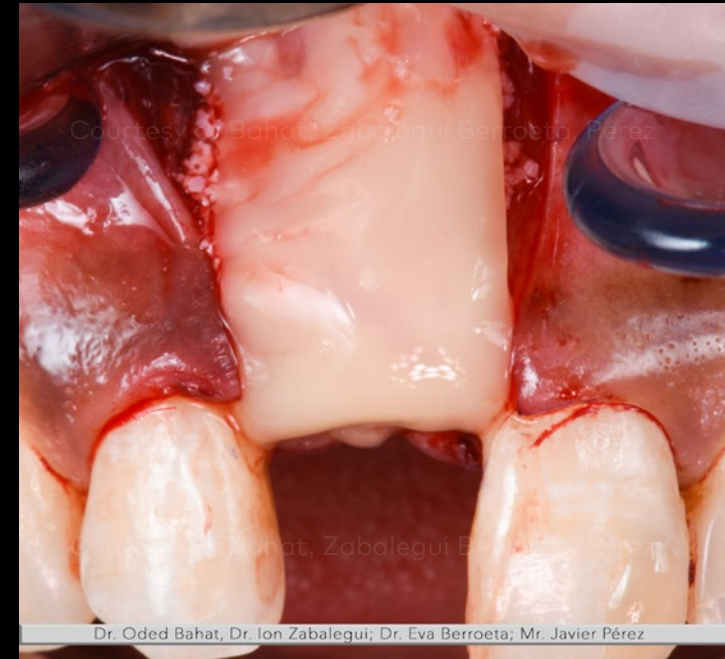
Treatment planning

Surgical procedure



Allograft and autogenous bone graft placed

Outcome



Placement of L-PRF membrane

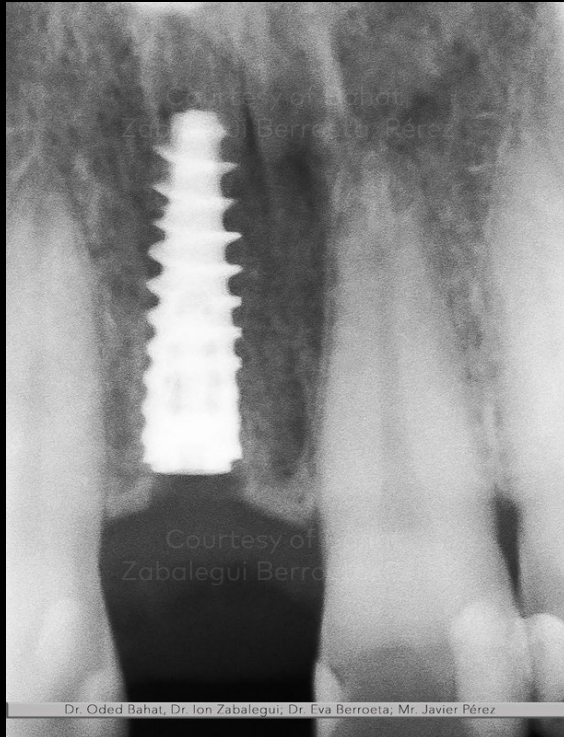
Reconstructed hard tissue site with bone augmentation and L-PRF

Initial clinical situation

Treatment planning

Surgical procedure

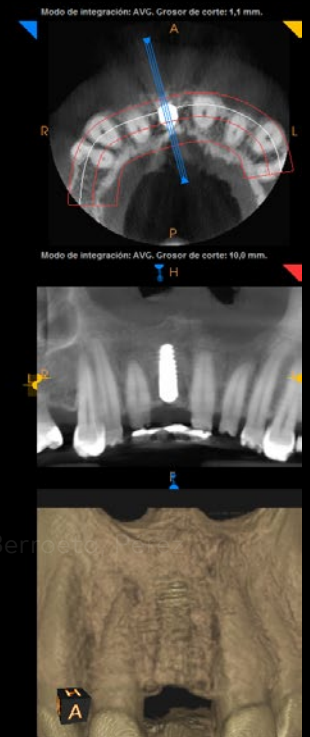
Outcome



Immediate post-op radiograph



Immediate post-op CBCT illustrating implant position and facial reconstruction



Radiograph illustrating immediate post-placement position

**Initial clinical
situation**

**Treatment
planning**

**Surgical
procedure**

Outcome



5 days post-op

5 day post-op

**Initial clinical
situation**

**Treatment
planning**

**Surgical
procedure**

Outcome



1 year post-op facial view

1 year post-op

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Courtesy of Bahat, Zabalegui Berroeta, Pérez
Dr. Oded Bahat, Dr. Ion Zabalegui; Dr. Eva Berroeta; Mr Javier Pérez



Courtesy of Bahat, Zabalegui Berroeta, Pérez
Dr. Oded Bahat, Dr. Ion Zabalegui; Dr. Eva Berroeta; Mr Javier Pérez

1 year post-op

1 year post-op



Courtesy of Bahat, Zabalegui Berroeta, Pérez

Courtesy of Bahat, Zabalegui Berroeta, Pérez

Dr. Oded Bahat, Dr. Ion Zabalegui; Dr. Eva Berroeta; Mr Javier Pérez

1 year post-op occlusal view

**Patient treatment courtesy of Dr. Oded Bahat, Dr. Ion Zabalegui,
Dr. Eva Berroeta & Mr. Javier Pérez**



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