

Nobel Biocare N1™ concept in the posterior maxilla with sinus floor elevation

Bilbao, Spain

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Patient

Female, 47 years

Clinical situation

Healed site at tooth position
15, 16 (FDI) with bone resorption

Surgical solution

Placement of two implants with
simultaneous sinus floor elevation

Restorative solution

2 Single crowns

Surgery date

Bilbao, April 25, 2019

Total treatment time

12 months

Tooth position

15, 16 (FDI) 3,4 USA

Implant placement
associated with
immediate sinus floor
elevation at sites with
inadequate vertical
bone height.

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Healed site before surgery. Lateral view



Healed site before surgery. Occlusal view

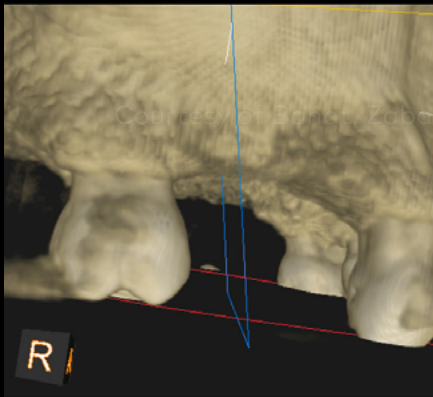
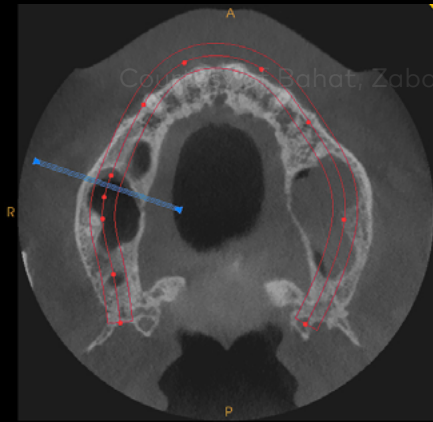
Partial edentulism right side maxilla with vertical ridge deficiency

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



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

CBCT Pre-op

CBCT illustrating inadequate vertical bone height, right side and healthy sinus. Mucosal thickening left sinus.

Initial clinical situation

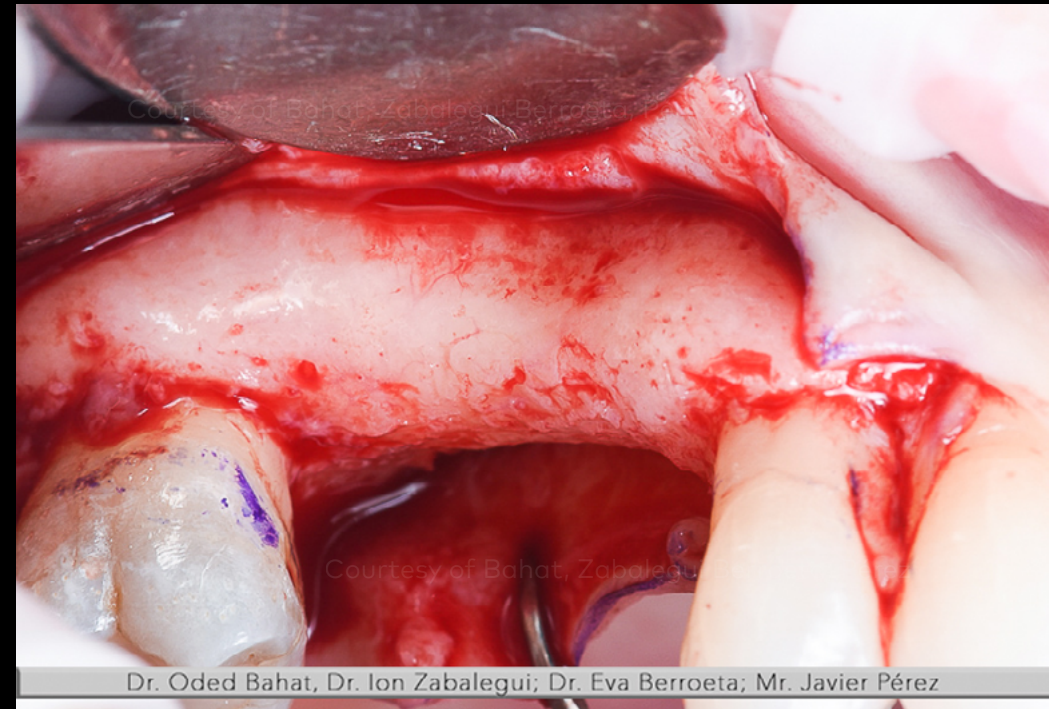
Treatment planning

Surgical procedure

Outcome



Marking of flap



Buccal view of ridge

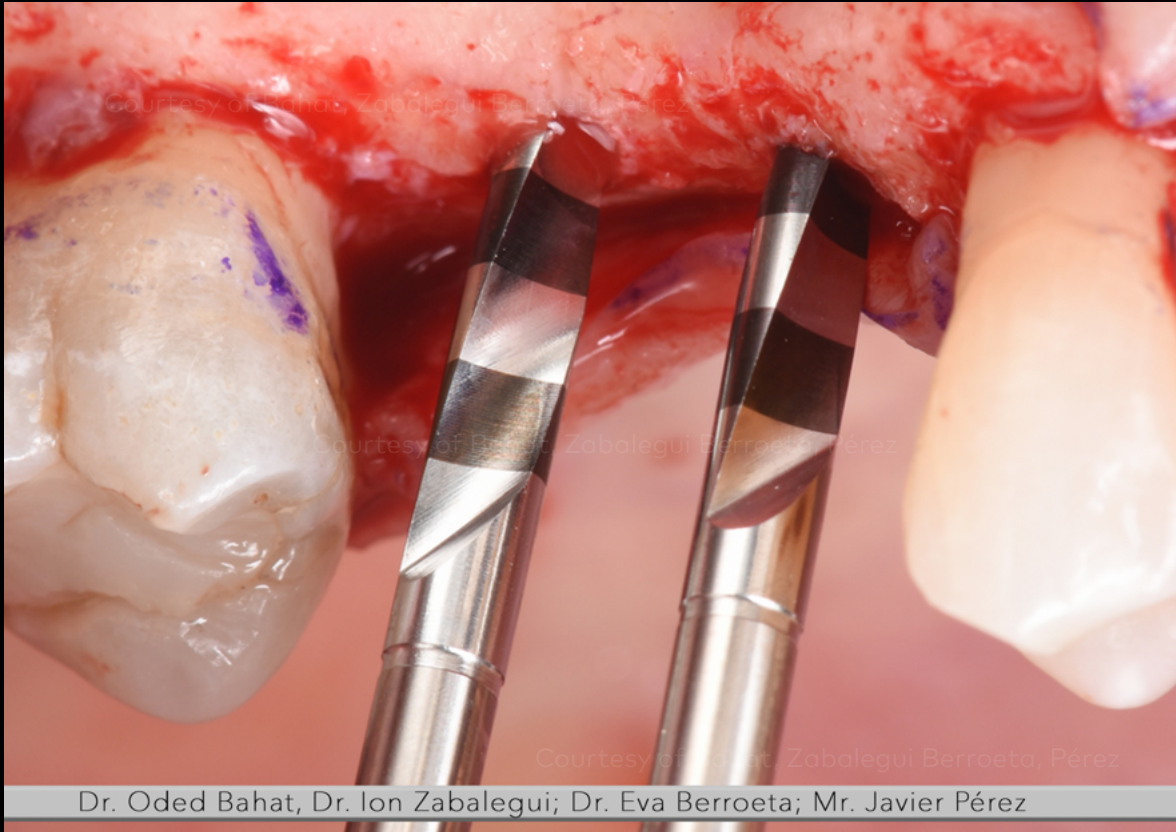
Flap delineation and full thickness elevation

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



OsseoDirector™ instruments (2000 rpm with irrigation)

Initial osteotomy with the OsseoDirector instrument. The final length and implant position established.

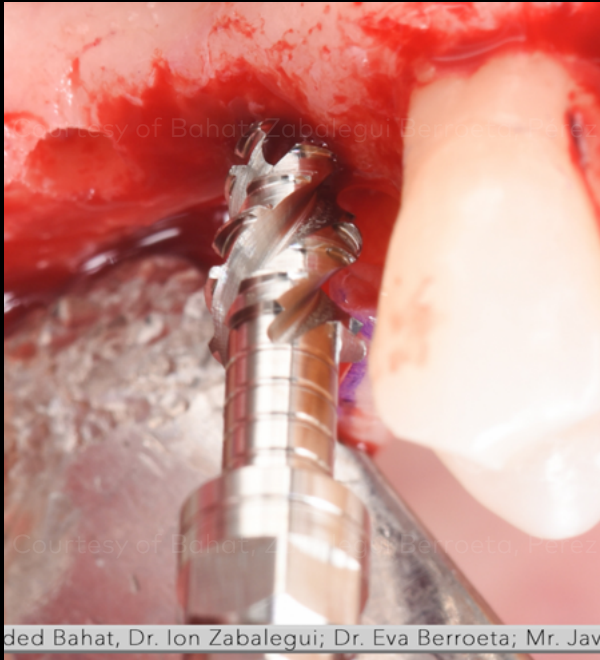
Direct

Initial clinical situation

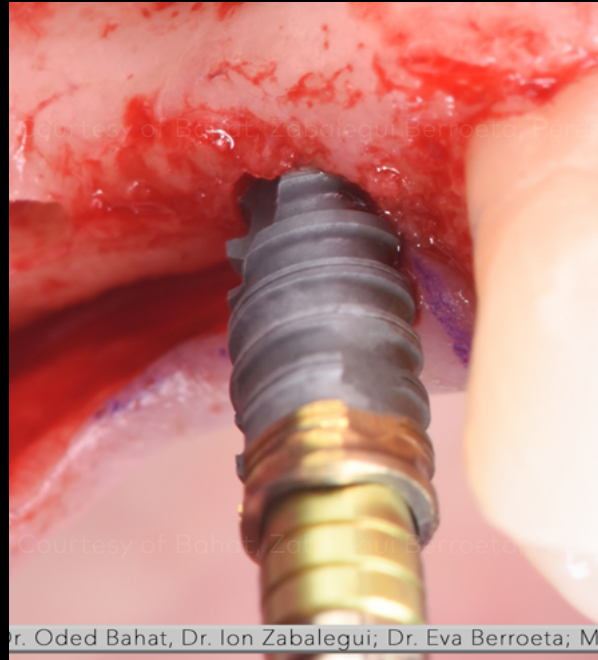
Treatment planning

Surgical procedure

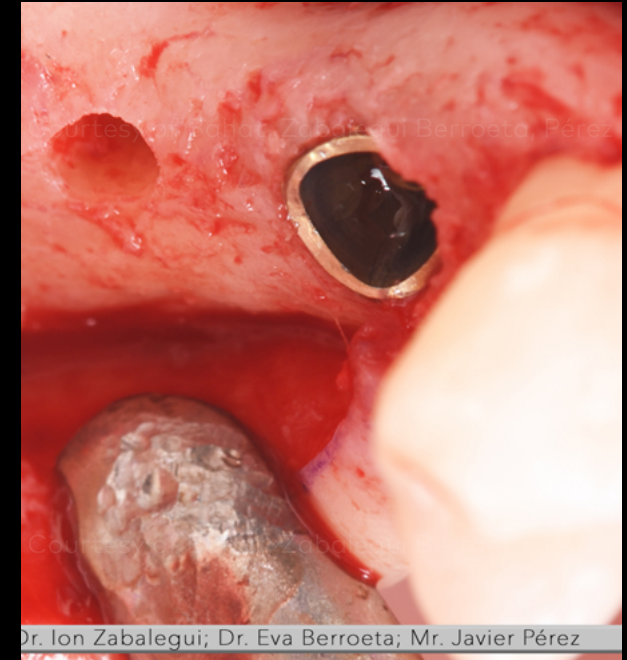
Outcome



Osseoshaper™ instrument* preparation of the site at 50rpm without irrigation



Implant followed the direction created by the OsseoDirector™ and OsseoShaper™ instruments*



Flat side of the trioval implant facing buccal

Shape (position 15)

Place (position 15)

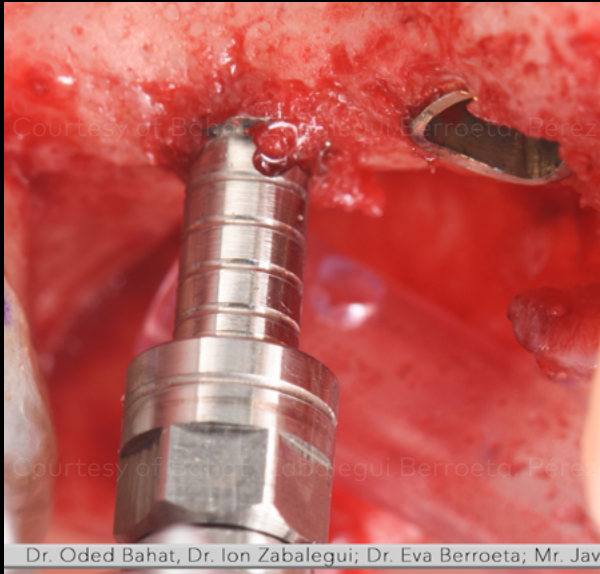
* In this clinical case the pre-launch version of the OsseoShaper™ instrument has been used: the "CS Soft Bone Gizmo". Black markings on the shaft and a 0.5 mm longer tip on the instrument are introduced on the final design of the OsseoShaper™ instrument.

Initial clinical situation

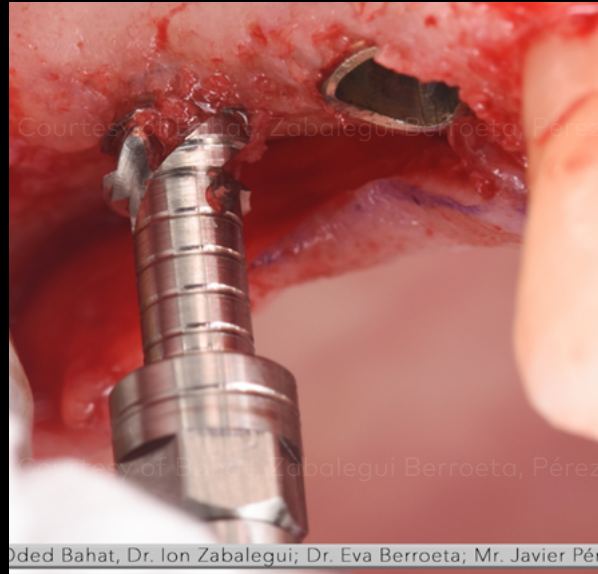
Treatment planning

Surgical procedure

Outcome



OsseoShaper™ instrument* at full depth. The end of the threads indicates the position of the implant shoulder relative to the bone crest.



Reversing to remove the instrument



Autogenous bone is maintained within the osteotomy and within the threads of the instrument

Shape (position 16)

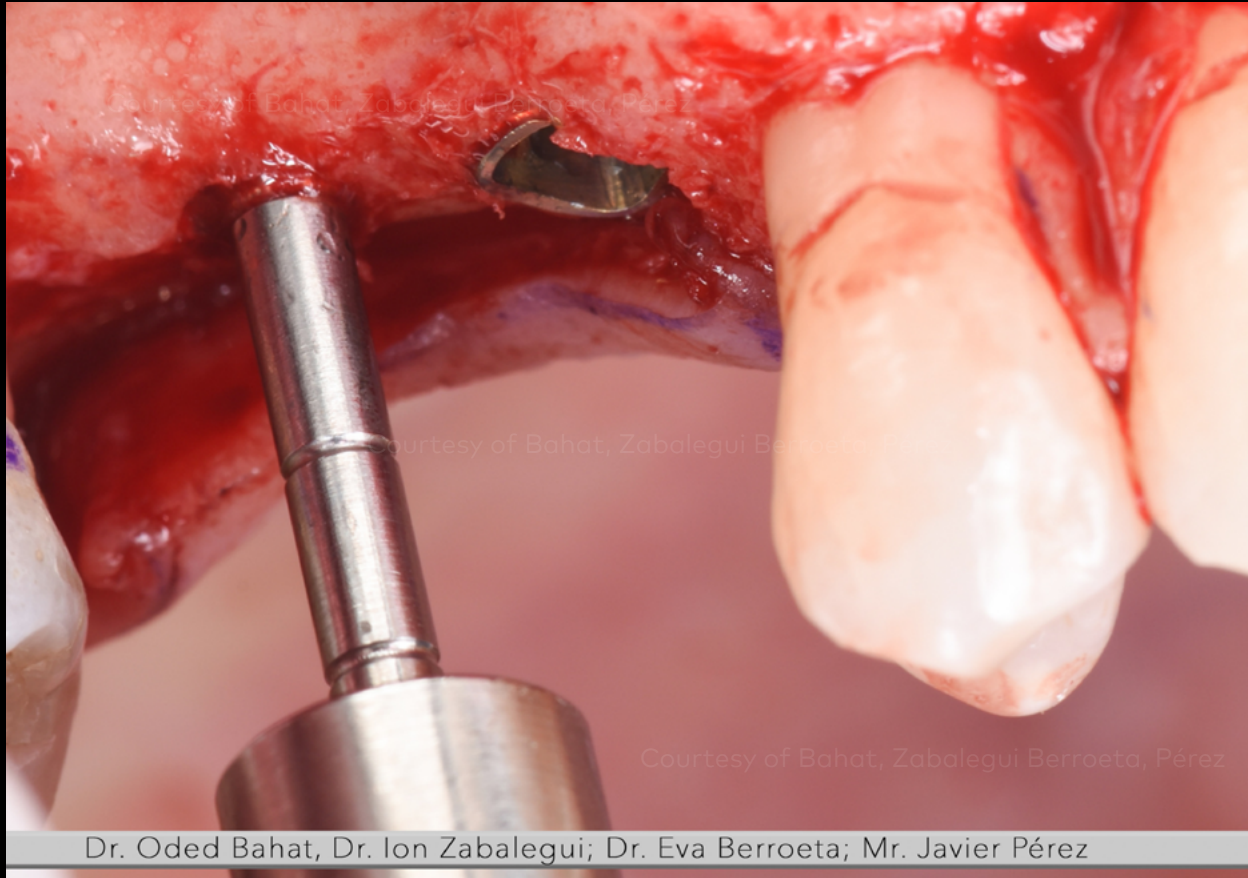
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Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Sinus lift with osteotomes after site preparation

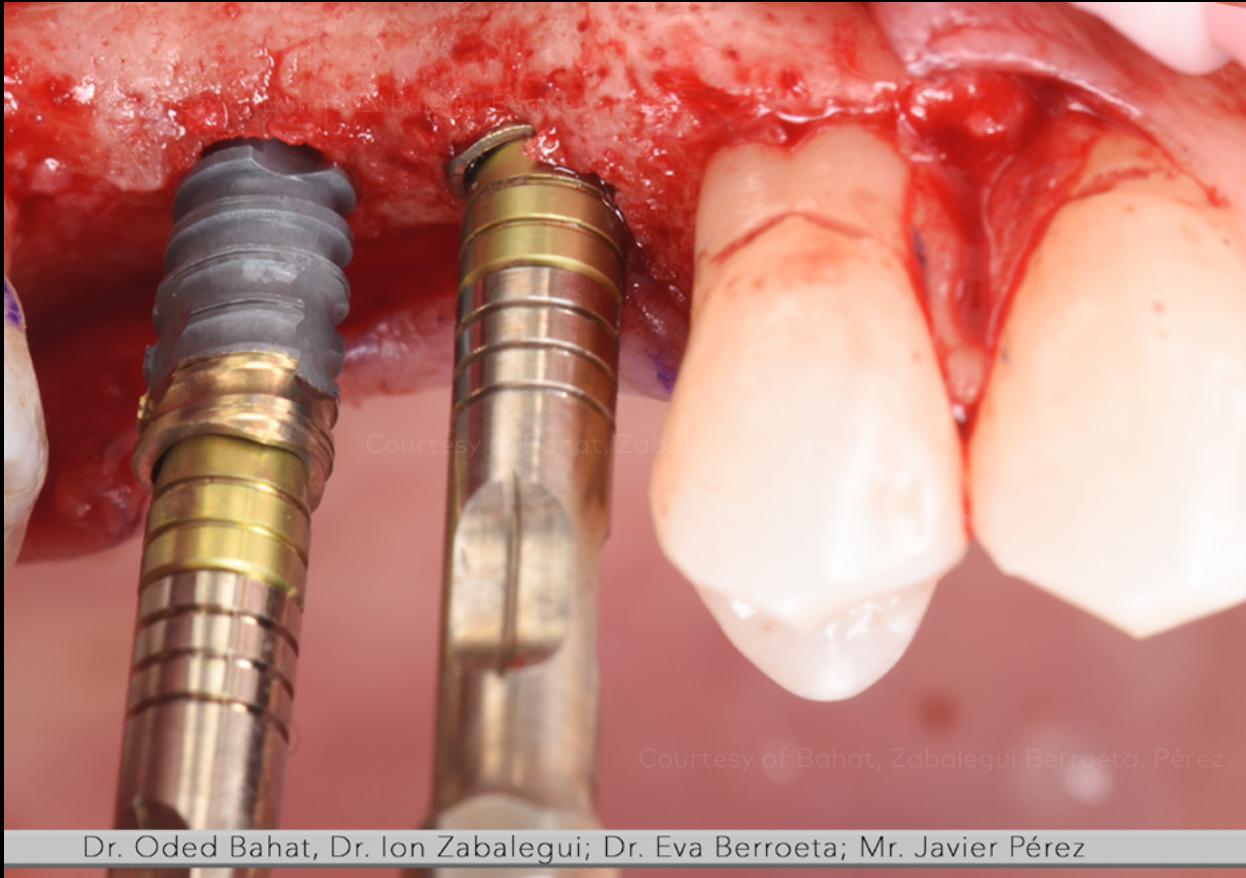
Place

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



Courtesy of Bahat, Zabalegui Berroeta, Pérez

Courtesy of Bahat, Zabalegui Berroeta, Pérez

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

Implant insertion 70 Ncm

Place

Final placement of the implants

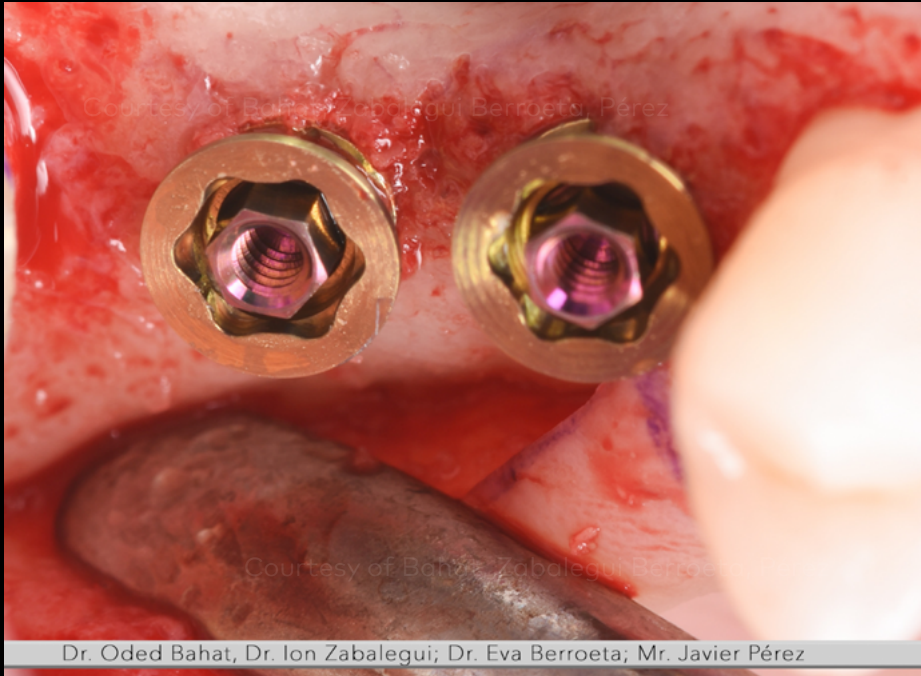
Flat part on the implant driver and vertical corresponding groove within the mount corresponds to the trioval flat aspect facing the facial aspect

Initial clinical situation

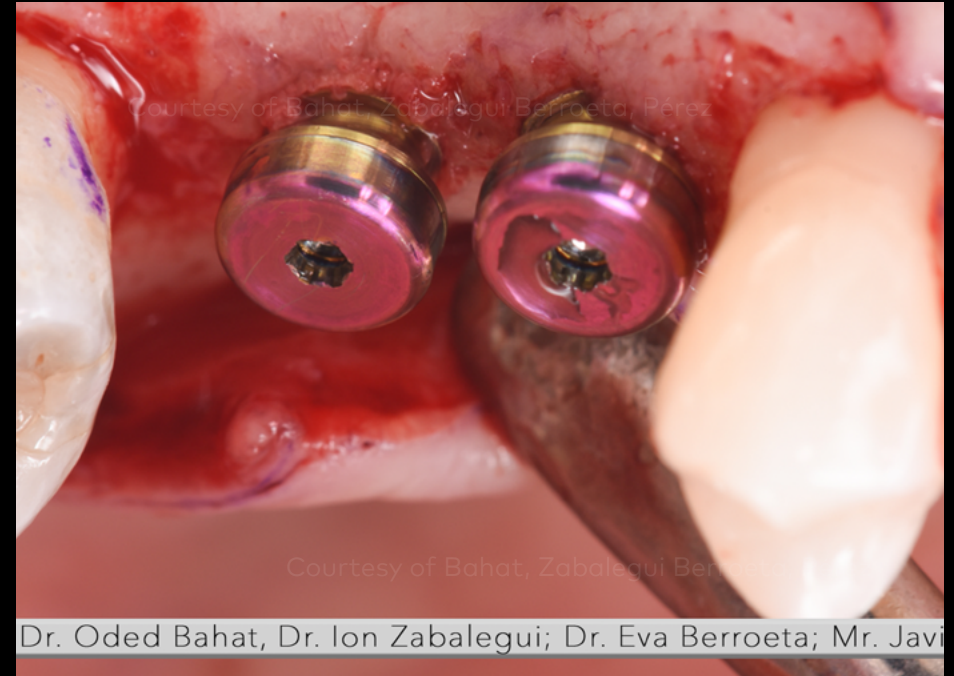
Treatment planning

Surgical procedure

Outcome



Transmucosal base placed at time of surgery



Healing caps and the base function as healing abutments

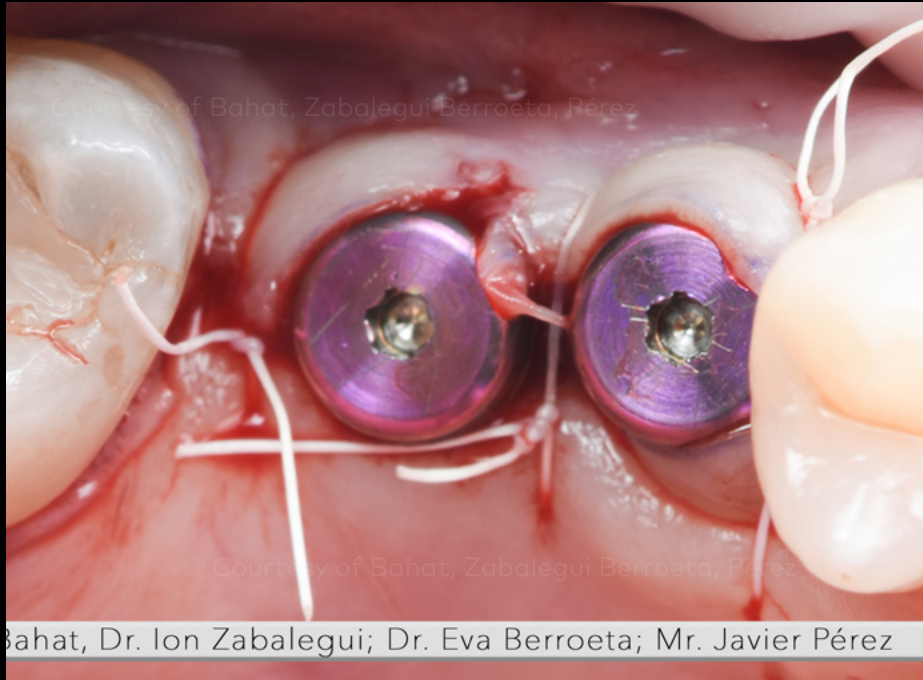
Place

Initial clinical situation

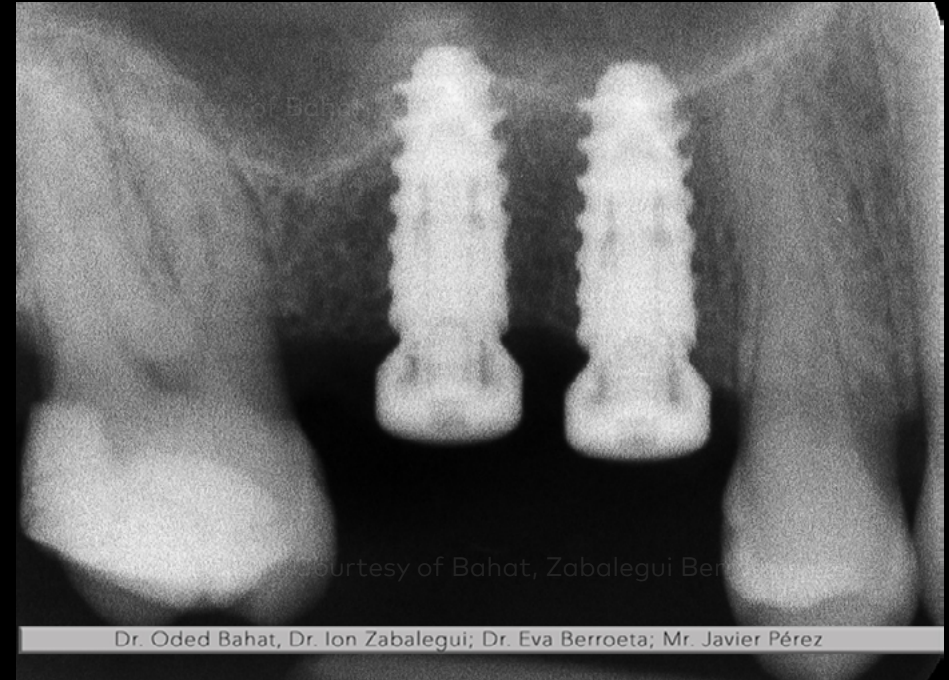
Treatment planning

Surgical procedure

Outcome



Flap closure. Healing caps and the base jointly shape mucosa.



Radiographs immediately post-op

Place

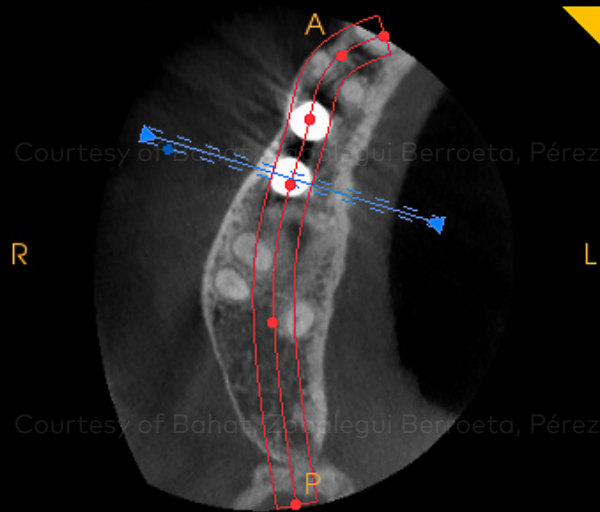
Initial clinical situation

Treatment planning

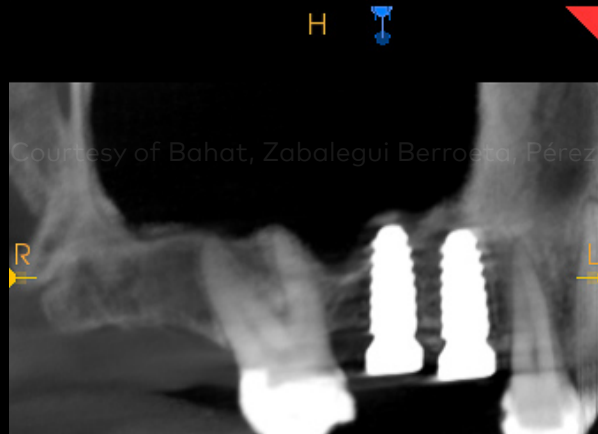
Surgical procedure

Outcome

Modo de integración: AVG. Grosor de corte: 1,1 mm.



Modo de integración: AVG. Grosor de corte: 4,0 mm.



CBCT immediately post op illustrating the implants position and sinus floor

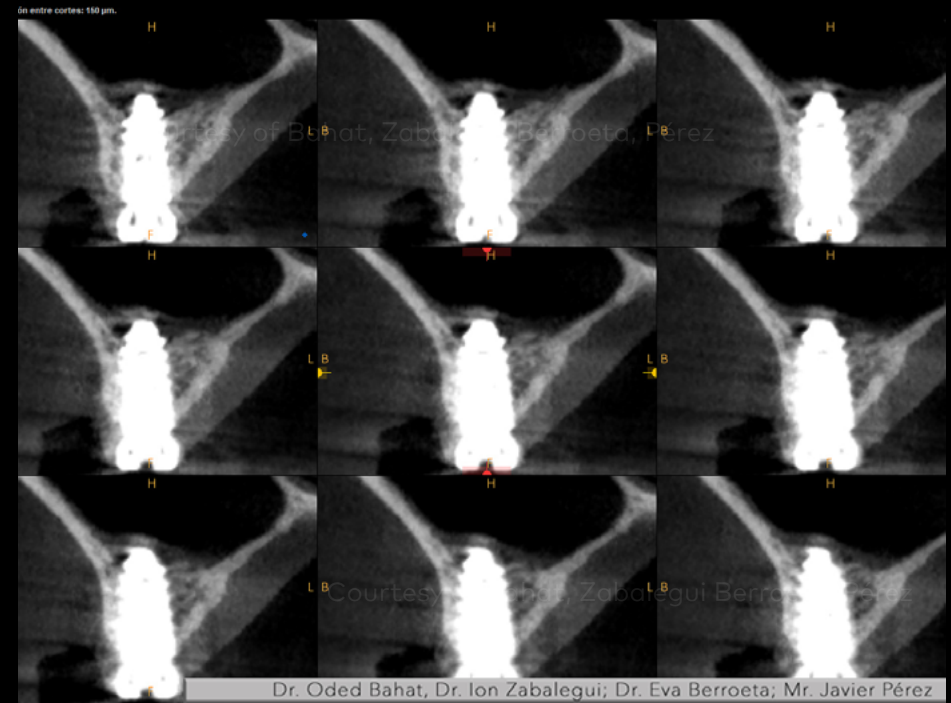
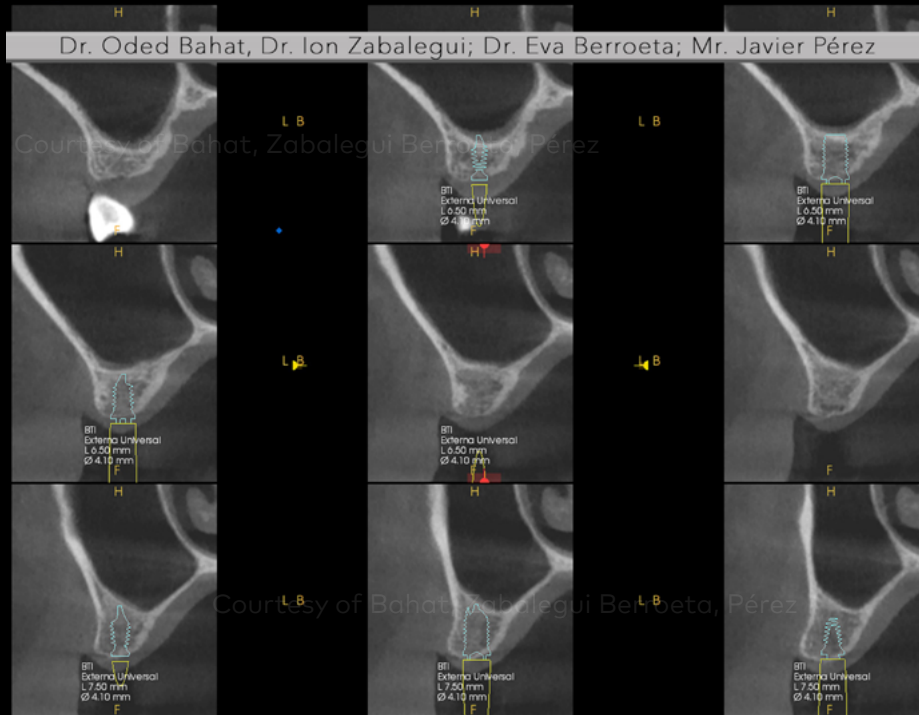
Immediate post-op CBCT

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



CBCT Pre-op (position 16) illustrating inadequate vertical bone height

CBCT Post-op (position 16) illustrating implant placement and sinus elevation

Pre-op and post-op CBCT

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



12 month post-op. Final restoration

Final restoration

Initial clinical situation

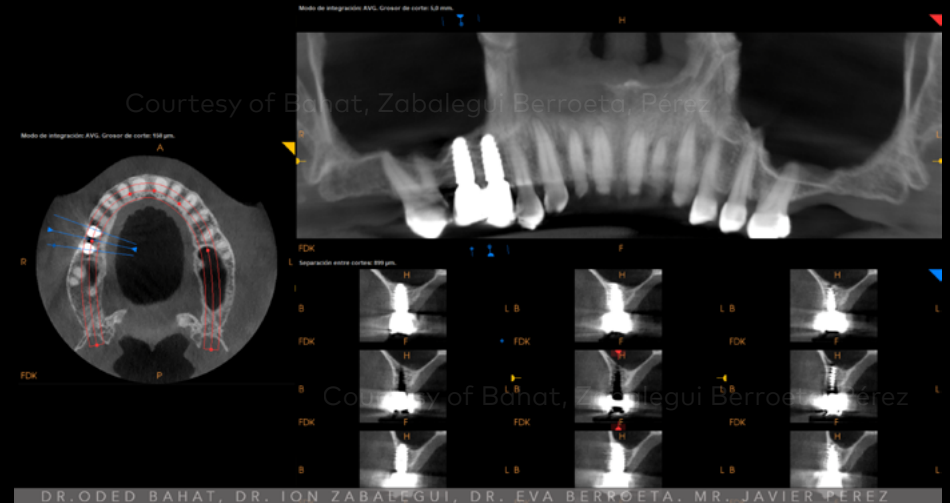
Treatment planning

Surgical procedure

Outcome



35 months post-op. Follow up



CBCT 35 months post-op

35 months post-op

Initial clinical situation

Treatment planning

Surgical procedure

Outcome



35 months post-op facial view

35 months post-op

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



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