

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.



Surgical procedure

Outcome





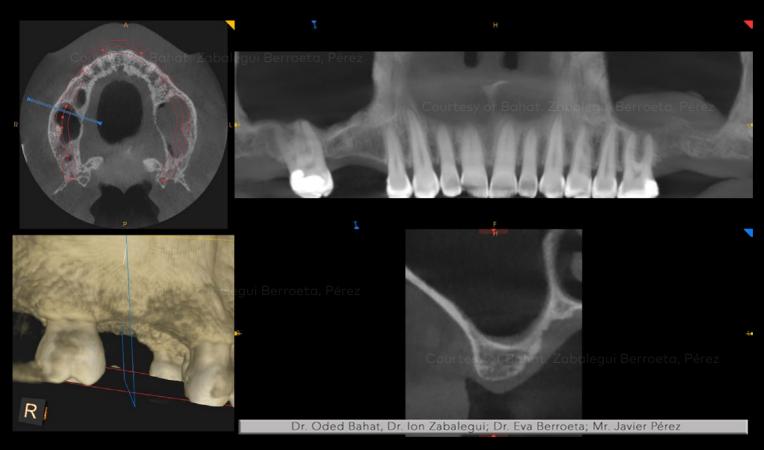
Healed site before surgery. Lateral view

Healed site before surgery. Occlusal view

Partial edentulism right side maxilla with vertical ridge deficiency

Surgical procedure

Outcome



CBCT Pre-op

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

Surgical procedure

Outcome





Marking of flap

Buccal view of ridge

Flap delineation and full thickness elevation

planning

Surgical procedure

Outcome

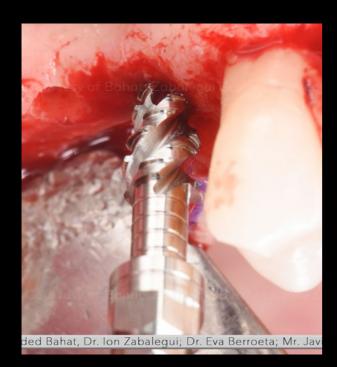


OsseoDirector[™] instruments (2000 rpm with irrigation) Initial osteotomy with the OsseoDirector instrument. The final length and implant position established.

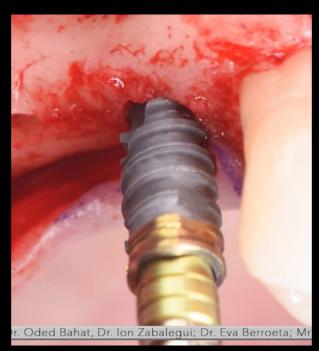
Direct

planning 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.

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.



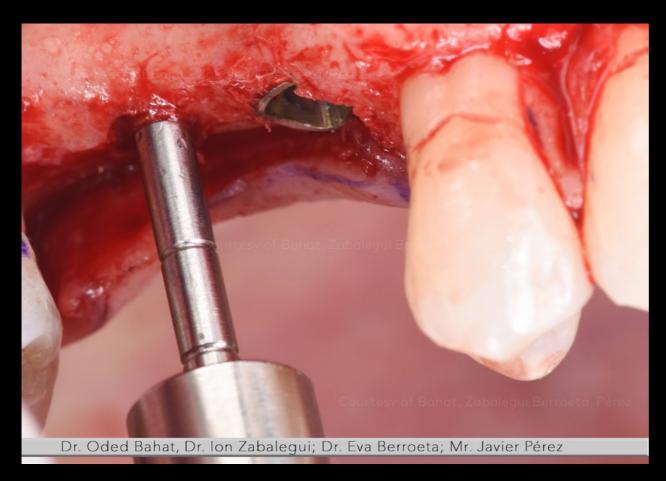
Reversing to remove the instrument



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

Shape (position 16)

^{*} 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.



Sinus lift with osteotomes after site preparation

Place



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



Transmucosal base placed at time of surgery



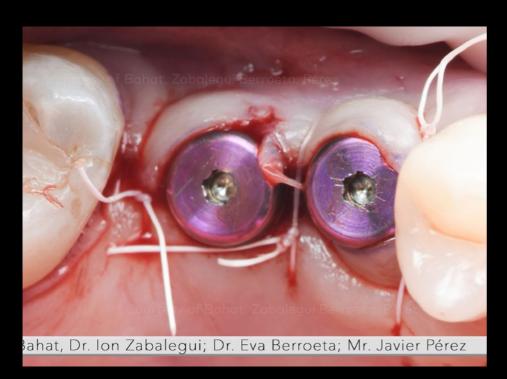
Healing caps and the base function as healing abutments

Place

planning

Surgical procedure

Outcome



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

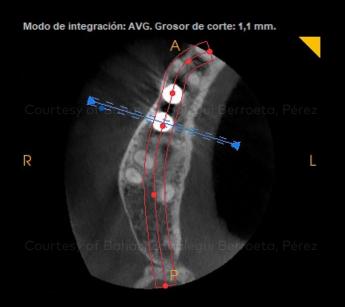


Radiographs immediately post-op

Place

Surgical procedure

Outcome

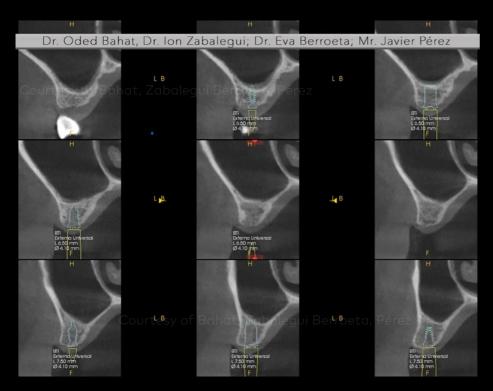




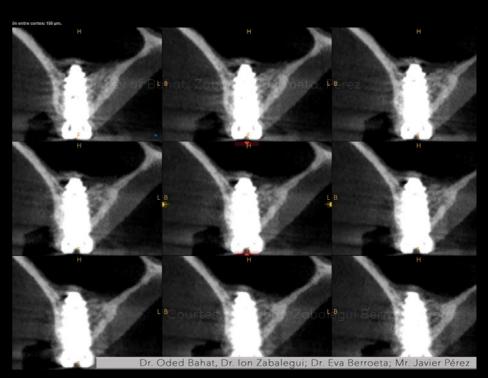


CBCT immediately post op illustrating the implants position and sinus floor

Immediate post-op CBCT



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

Surgical procedure

Outcome



12 month post-op. Final restoration

Final restoration

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



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