

CLINICAL CASE

EXPANDING TREATMENT POSSIBILITIES
IN LIMITED SPACES WITH HELIX SHORT
IMPLANTS



 Smile for
Everyone
solution

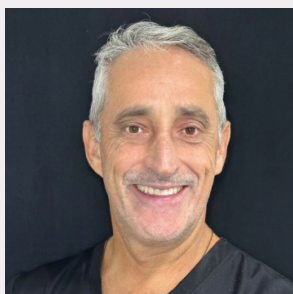
 HS
Connection

 Single-unit
restoration

CLINICAL CASE

Expanding Treatment Possibilities in Limited Spaces with Helix Short Implants

RESPONSIBLE SURGEON



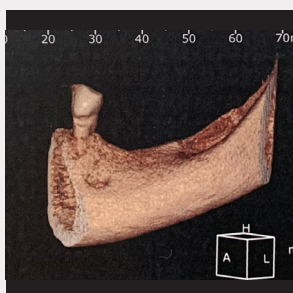
DR. MARCELO FONTES

BRAZIL

Specialist and MSc in Implant Dentistry.

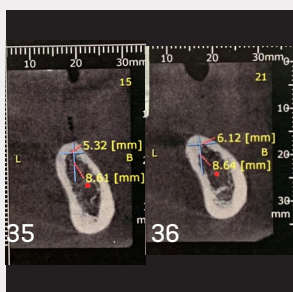
Specialist in Periodontics.

Neodent® Scientific Consultant.



PATIENT MEDICAL HISTORY

A healthy female patient presented to the clinic with missing teeth #36 and #37.



PLANNING

A comprehensive clinical and radiographic evaluation led to the planning of two Helix Short implants (3.75 × 7.0 mm and 4.0 × 7.0 mm). This approach was chosen due to the close proximity to the mandibular canal and the limited available bone height, which did not exceed 9 mm.

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DESCRIPTION OF THE SURGICAL PROCEDURE

Initially, a full-thickness mucoperiosteal flap was elevated to enhance visualization of the surgical field. Osteotomy preparation was then performed following the drilling protocol recommended by the manufacturer. Drill stops were used to control the preparation depth, which did not exceed 7 mm.

Both implants were placed with an insertion torque of 45 N·cm. As the Helix Short implant features a tissue-level design, implant positioning followed the preoperative planning, ensuring that the treated surface remained entirely within the bone while the transmucosal collar was maintained in its intended position. A late loading protocol was adopted. Accordingly, at the end of the surgical procedure, two Helix Short (HS) healing abutments (1.5 mm and 2.5 mm) were installed.

PROSTHETIC DESCRIPTION

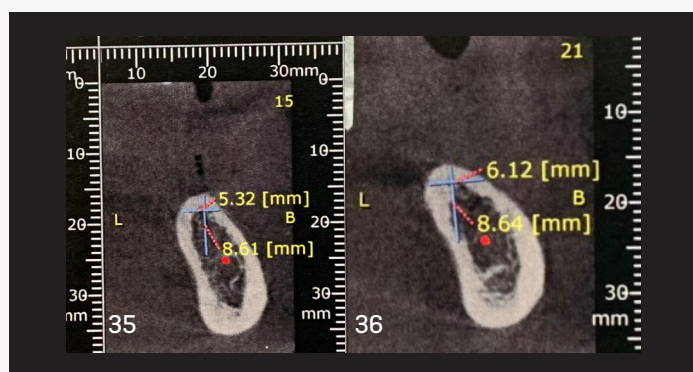
Three months postoperatively, two HS Mini Conical Abutments (0.2 mm) were placed. An intraoral scan was subsequently performed, during which two scanbodies were connected to enable accurate digital acquisition. A printed working model incorporating Mini Conical Abutment analogs was then fabricated. Based on this model, two metal-ceramic crowns were produced and subsequently installed with a torque of 10 N·cm.

TIPS AND LEARNINGS

In borderline posterior mandibular cases characterized by reduced bone height and width, the use of Helix Short implants represents a viable and predictable alternative for prosthetic rehabilitation. In distal extension situations, such as the present case, splinting of the implant-supported crowns is recommended, particularly when short implants with reduced length and diameter are employed. This strategy promotes a more favorable distribution of occlusal loads, increases resistance to masticatory forces, and may contribute to improved long-term stability and longevity of the prosthetic rehabilitation.

NEODENT® MATERIALS

- Helix Short implant.
- HS Healing Abutment
- HS Mini Conical Abutment
- Mini Conical Abutment Scanbody
- Mini Conical Abutment Analog



1. Initial CBCT Scan.

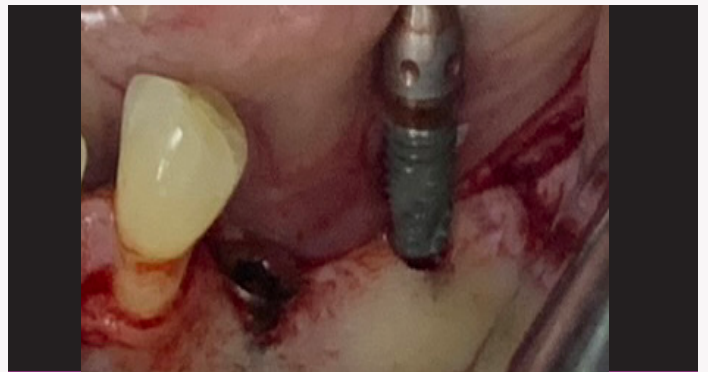


2. Drilling protocol.

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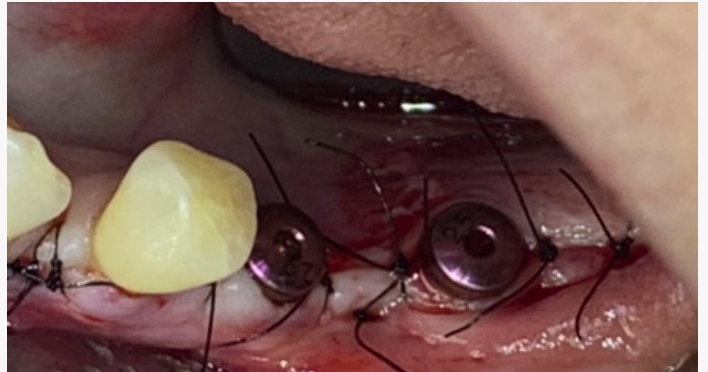
3. Implant placement in the region of tooth 36.



4. Implant placement in the region of tooth 37.



5. Buccal view of the implants placed.



6. HS Healing Abutments installed.



7. Occlusal view of the Mini Conical Abutments installed three months after surgery



8. Metal framework on the 3D-printed model.

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SHORT IMPLANTS



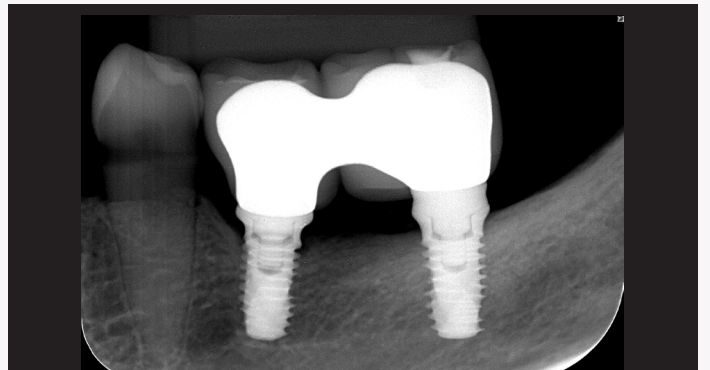
9. Clinical try-in of the metal framework.



10. Definitive prosthesis on the 3D-printed model.



11. Final clinical aspect.



12. Final radiographic aspect.

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It is the clinician's exclusive responsibility to evaluate the patient's health conditions and viability of the procedure. The reproduction of this clinical case does not imply the success of similar procedures, as it will depend on the clinician's technique and ability, on patient's conditions on the previous and post procedure.

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NUOVI SORRISI OGNI GIORNO

CHAQUE JOUR DE NOUVEAUX SOURIRES

новые улыбки каждый день

JEDEN TAG EIN NEUES LÄCHELN

NUEVAS SONRISAS TODOS LOS DÍAS

NYA LEENDEN VARJE DAG

NEW SMILES EVERY DAY

NOVOS SORRISOS TODOS OS DIAS

CHAQUE JOUR DE NOUVEAUX SOURIRES

NOVOS SORRISOS TODOS OS DIAS