

Single Implant Restoration Simplified with the PickCap Impression Kit



Case Summary 🔍

Patient Information

- Age/Sex: 69-year-old Female
- Systemic Condition: Medically healthy

Clinical Findings

- Tooth Site: #46 (mandibular right first molar)
- Oral examination: Previously root canal-treated tooth with recurrent decay
- Diagnosis: Endodontic failure with secondary caries at site #46

Treatment Plan

1. Extraction of tooth #46
2. Immediate placement of a **Neobiotech IT-III implant**
3. Primary stability measurement using **AnyCheck**
4. Impression taking using the **PickCap Impression Kit**
5. Delivery of the final restoration with a **zirconia crown**

Clinical Summary

The patient presented with a previously endodontically treated mandibular right first molar (#46), showing signs of endodontic failure and secondary caries. The tooth was extracted, and an implant was immediately placed in the extraction socket. An implant impression was taken with the PickCap Kit one month after surgery. A zirconia crown was fabricated and successfully delivered as the final prosthesis.

Case Presentation

1 Pre-Op

- The preoperative panoramic and intraoral images revealed secondary caries on tooth #46, which had previously undergone root canal treatment. Upon removal of the crown, extensive secondary caries was identified.



2 Surgery

- Tooth #46 was atraumatically extracted to preserve the socket for immediate implant placement.
- Sequential drilling was carefully performed to maintain socket integrity and ensure optimal implant positioning.



- Due to the D221 bone density, a 5.0 Maxy drill was used to prevent over-compression.
- The formed thread can be clearly observed.



- A $\varnothing 5.0 \times 10$ mm IT-III implant with a 1.8 mm G-collar was placed.
- Good primary stability was achieved with an insertion torque of 40N/cm.



- Following cover screw placement, bone grafting was performed using Neo Bone (allograft).
- A healing abutment was then connected.



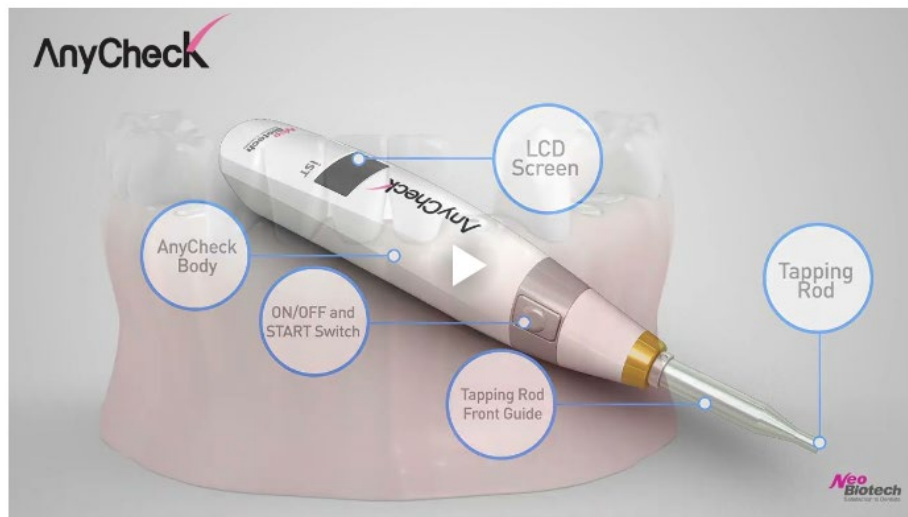
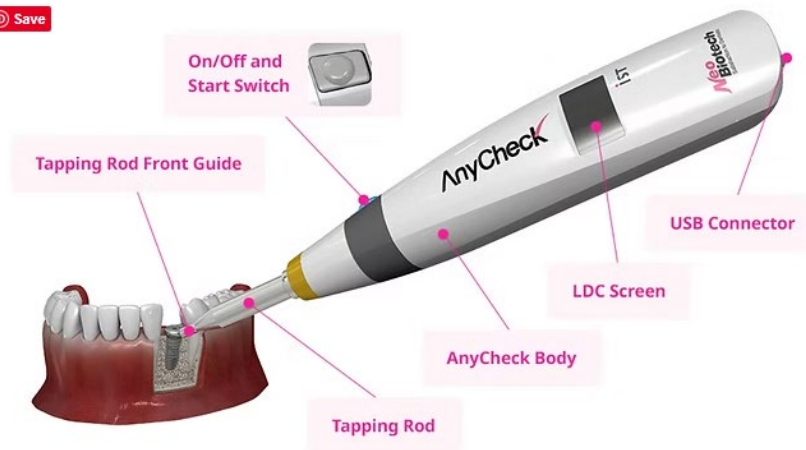
- Initial stability was measured using AnyCheck.
- The measured value was 83, and after adjusting for collar height, the corrected value was 85.



AnyCheck

Dental implant stability meter (tapping-motion) for measuring stability of an implant without disconnecting the healing abutment.

Save



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3 Post-Op

- Clinical and radiographic examinations were performed postoperatively.



4 Check-Up

- Two weeks after surgery, initial stability was well maintained without reduction.

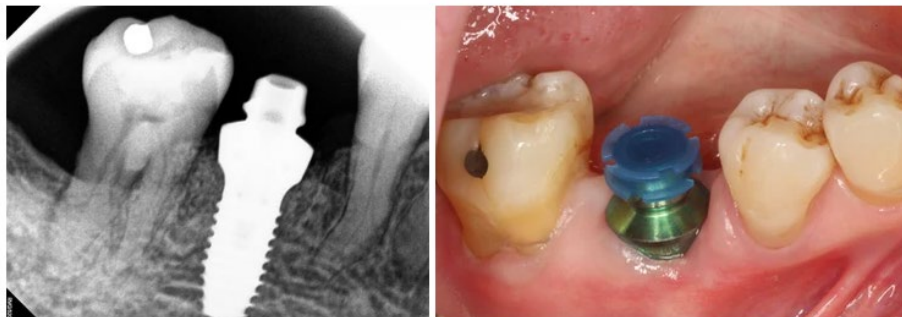


5 Implant Impression

- 1 month after surgery, the soft tissue had healed well.
- After removal of the healing abutment, a coping of appropriate diameter and gingival height was selected and connected.



- A periapical radiograph was taken to verify proper coping connection.
- After connecting the cap to the coping, occlusal and proximal clearances were checked.



- A rubber impression was taken.



- After impression removal, the PickCap remained in the impression. The coping was unscrewed, joined with the lab analogue, and repositioned using the PickCap as a guide.



▼ PickCap Impression Kit

The Pick Cap Impression Kit consists of Impression Copings of various diameters and lengths. It is used to acquire oral impressions conveniently.



**PickCap
Impression**





**Neo
Biotech**
Satisfaction to Dentists

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6 Final Restoration

- The final prosthesis was delivered 6 weeks after surgery.



- Radiographic examination after final restoration



7 Follow-Up

- 1-year follow-up panoramic and intraoral images showed stable outcomes with no complications.



