Restoration of a partially edentulous patient with modified EASY abutments in the lower jaw

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Products used

- ELEMENT Implant RC INICELL®, diameter 4.5 and 6
- Gingiva former, 2.0 mm height
- Retentive impression copings for open tray technique

Procedure

Single tooth replacement with implants in two stage technique, impression taking on implant level in open tray technique, restoration with modified EASY abutments.

Initial situation (x-ray)

All teeth in a status of good repair, mostly restored with fillings. In teeth 35/36 and 45/46 endodontic treatment failed and single implants were chosen as the tooth replacement option.
Treatment plan

For this 35 years-old patient with good oral hygiene, a single-tooth implant treatment was chosen as the best course.

During the interim restoration, the patient was provided with a removable partial denture.

Initial situation

Occlusal view of the lower jaw, 6 months after extraction of the teeth.

Region 35, 36 in occlusion (lateral view). See tooth-to-tooth occlusion and significant loss of bone height in the region planned for implant insertion.

Broad attached gingiva and good remaining bone height in region 45-46.
Implant placement (panoramic X-ray)

Panoramic view of four implants inserted in region 35 and 36 and in region 45 and 46 (CONTACT, 4.5 and 6 mm platform) in a single-stage approach. Gingivaformers in place.

Healing phase

Occlusal view 11 weeks after implant insertion and soft tissue modeling with gingivaformers.
Close up (lateral view) of region 35, 36….

..and region 45/46:

Note the well-established emergence profile of both implants. The soft tissue was sculpted with gingiva formers. Papilla-like structures are visible.

Impression taking

Impression taking with cylindrical, single-use impression copings in region 35/36 utilizing the open tray technique. Implant posts have been luted together with pattern resin (GC, GC America).

Overview of the impression taking posts in place in region 45/46.
Impression with dual mix technique using vinyldisiloxane material (Panasil, Kettenbach).

Standard impression tray with placed implant analogs.

Plaster cast with gingiva masks in region 45/46.
Try in

Try-in of occlusally reduced EASY region 45/46.

In the lab

Overview: Individualized EASY abutments on the model, smoothened edges.
Try in II

Try-in of the modified EASY abutments.

Bite registration was done intraorally.

Try-in of copings and interocclusal verification in region 45/46…
In the lab

Final bite registration
(Vanilla Bite, Denmat)
In the lab

Occlusal view of finalized crowns on model

Finalized crowns on model in region 45/46…

.. and without gingiva mask
Final restoration in place

Occlusal view of the crowns in place.

Crowns in place on day of cementation…

…and one month after cementation.