Follow up of single tooth rehabilitations on ELEMENT RC implants with modified EASY Abutments over 10 yrs

Dr. med. dent. Enomoto, Japan

Products used
- ELEMENT Implant RC of 3.5mm diameters (regio 17 and 37: 5.0 mm), all: 11 mm length
- Gingiva former of collar heights 3.2 and 4.5
- Impression coping for closed tray technique on implant level
- Temporary abutments (SPI Temporary)
- EASY abutment, without any modification

Procedure
After elevation of the restoration in the first quadrant, implant was placed at area of tooth 15. Tooth 36 was hemisected and mesial root was replaced by an implant to manage the furcational involvement. In region 17 and 26, and 37 additional implants were placed in healed sites. A 10 weeks submerged healing phase followed. Implants were then uncovered by tissue punch technique and gingiva formers were placed.

At same time impression taking for provisional crowns in closed tray technique was done. After adjustment of soft tissue morphology and occlusion with the help of a temporary crown final impression on implant level was taken and final restoration with telescopic crown was placed.

Initial situation (x-ray)
Dentition of a 61 old male with few prosthetic restorations. Partial loss of posterior teeth in the mandibular with elongated antagonists.

Single x rays of the situation provide further insight in the bone structure and - level in the areas prospected for implantation:

Tooth 36 with furcational involvement

**Initial situation**

The patient presents with excellent oral hygiene but an aesthetically and functionally non acceptable bridgework.

In the lateral views the elongated posterior teeth in the maxilla become obvious.

The occlusion is clearly unharmonious.

Cervical fillings had become necessary because of the intense oral hygiene of the patient.
Frontal view in occlusion:

General good gingival health status after perio treatment and broad band of keratinized gingiva:

The asthetically limiting black triangle in the anterior region and multiple gingival recessions do not upset the patient.

Midlines of jaws are congruent.

Lateral view of the 2nd and 3rd quadrant. Also in these quadrants posterior bite collapse is obvious.

Prosthetic restorations are not functional any more.

Treatment plan

Planning models, both lateral views. Decision was taken to extract the elongated teeth and replace them by implants. Such a restoration with implants also in the opposing dentition was feasible, with the final aim to get a stable occlusion over years.
Implant placement (panoramic X-ray)

Situation after second surgery.
Temporary abutment was placed on the implant in region 37 and gingiviformers in place.
Regio 47 implant (Frialit 2) with bulby gingiviformer.
Radiological Follow up after 8 years

Clinical situation after 8 years
Radiological Follow up after 10 years

Clinical situation after 10 years

Excellent aesthetics and function are maintained.