Three systems – one solution

Introduction

Patients who have already had several generations of implants which have been successfully osseointegrated are attending the practice increasingly regularly. It is becoming increasingly difficult for dentists and dental technicians to have a sound knowledge of the wide range of prosthetic restoration options available.

Clinical case

Our case involves an 82-year old patient who presented herself at our practice with a case of explantation of implants as a result of poor oral hygiene (1, 2). This meant that she required a new prosthetic restoration. We could only fulfill the patient’s wish for fixed teeth to a limited extent, as we could not expect optimal cleaning due to the patient’s poor oral hygiene. For this reason, we decided upon the manufacture of a removable, telescopic bridge.

The following problems needed to be taken into account:

- Connection of implants to the natural teeth
- Three different implant systems (SKY®, bredent medical; PITT-EASY®, Oratonics; Q2-Implant®, Trinon Titanium)
- A severe loss of vertical height was already present in the posterior area (3)
- Zirconium oxide primary parts (adhesive bases either unavailable or unsuitable due to severe divergence of the implants) (4)

Idea:

Use of the existing titanium abutments or over-pressing of titanium standard abutments with BioHPP® (bredent)1.

Following manufacture of the primary parts (7), the secondary parts (BioHPP®, bredent) (8) and the tertiary structure (9) were manufactured. The primary parts were cemented and screwed into the patient’s mouth (12) and the secondary parts were bonded onto the non-precious metal alloy (brealloy®) (16). Both we and the patient were delighted with the result (13).

Conclusion

Individual abutments can be made relatively easily using the for2press® device (bredent). This is even the case for patients with various existing implant systems, for which we may no longer be able to provide adhesive bases and innovative abutments. Furthermore, in consultation with the patient, the perfect solution can be developed. Using either a fixed or removable solution, we take care of cleaning, freedom from tension, ease of repair and softer chewing into account. All of these points were considered in this case.

Literature