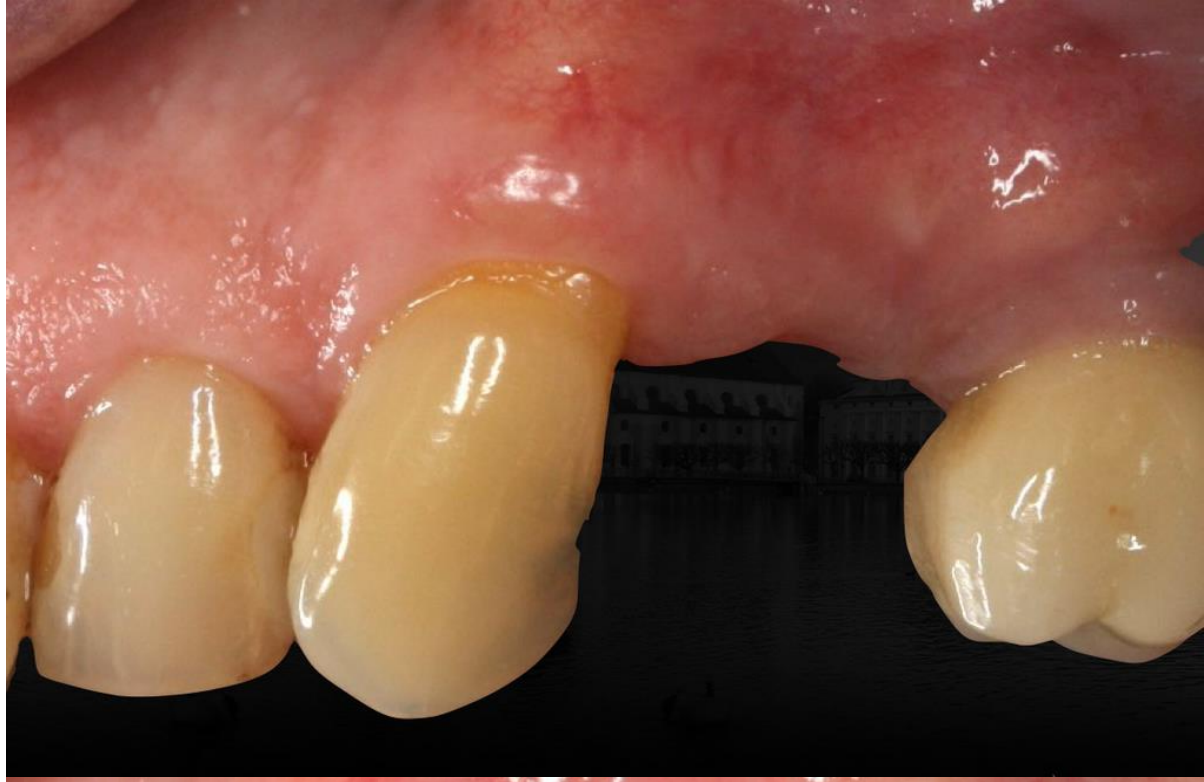
DESS

Clinical case

DESS® C-Base: the abutment solution compatible with the Cerec® Sirona® system

Dr. Konstantinos Tokmakidis presents a zirconia crown restoration on C-Base

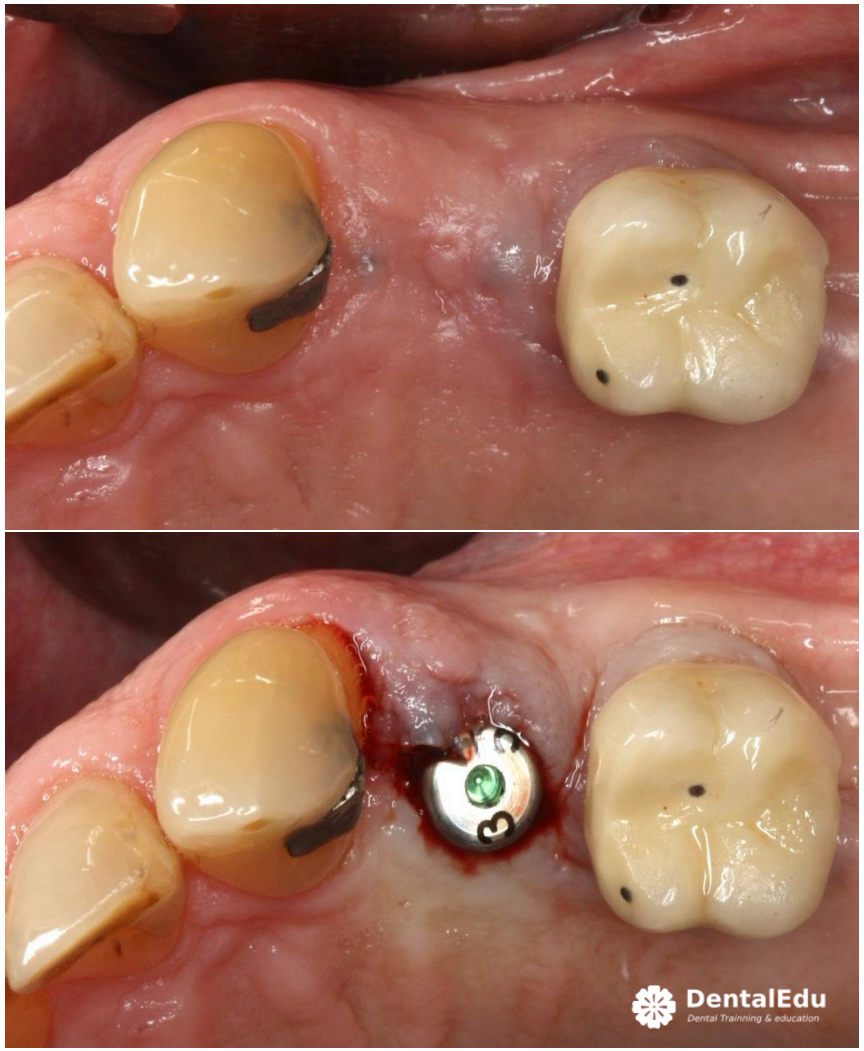


Dr. Konstantinos Tokmakidis
(Switzerland)

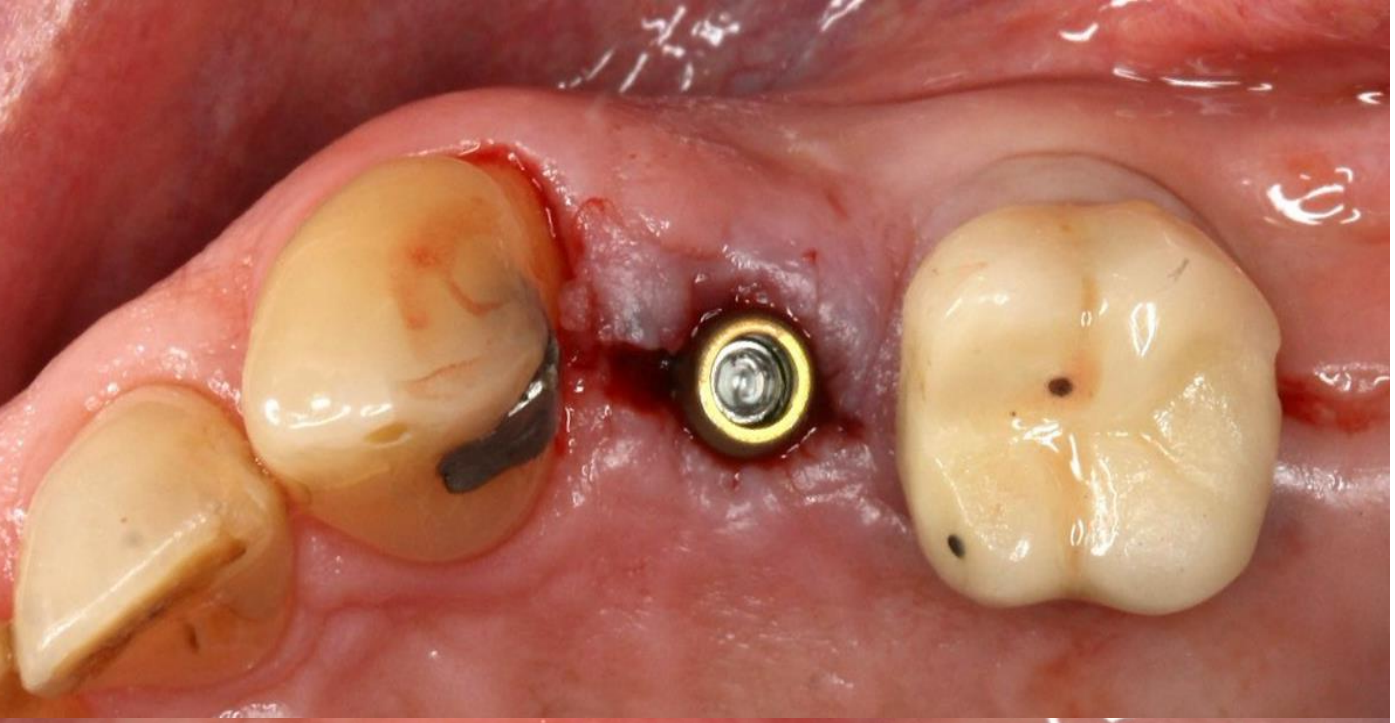
CASE PRESENTATION

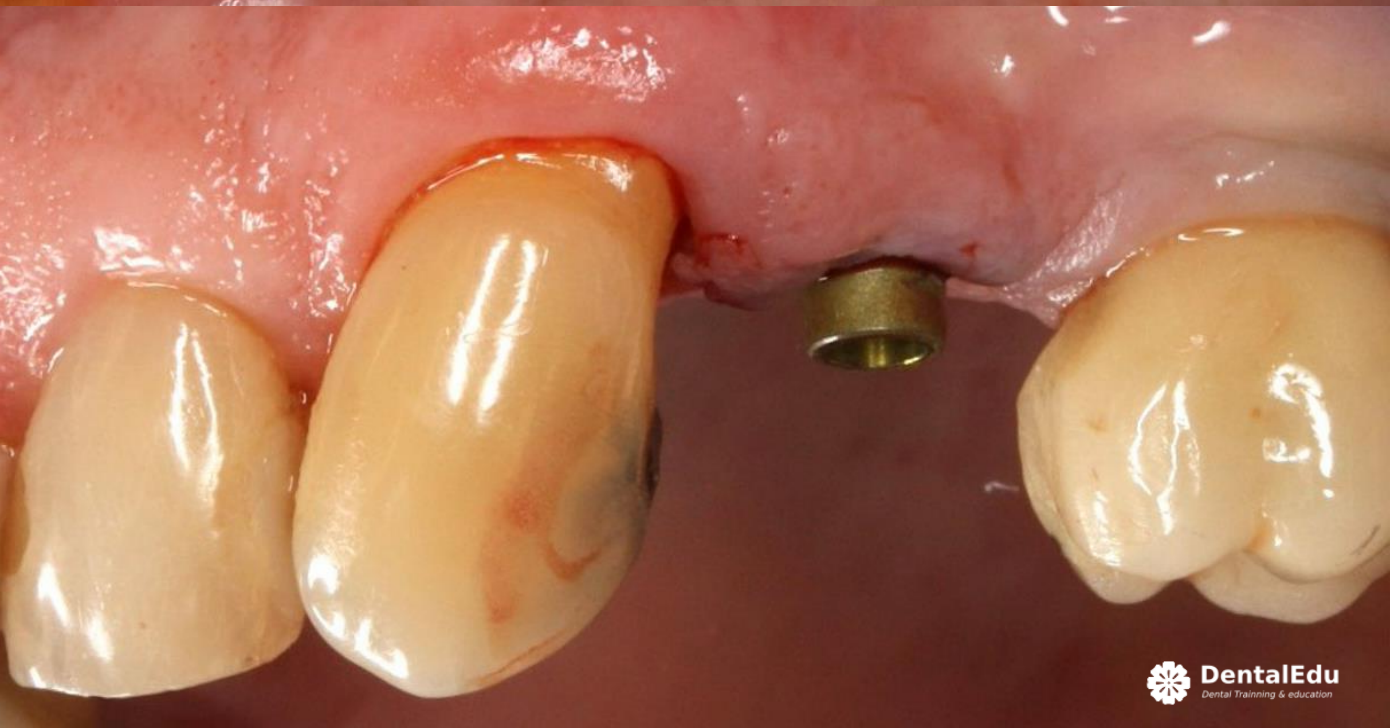
A male, 82-year-old patient, with no underlying medical condition and adequate oral hygiene presented to the dental clinic with a failing tooth #24 (FDI). After thorough consideration of various treatment modalities, it was decided to proceed with an implant-based restoration. As tooth #25 (FDI) was an implant, the surgical part was planed as minimally invasive as possible.

A Zimmer TSV® implant with a diameter of 3,7mm was placed through a surgical guide, fitting to the root of the tooth to be restored.



Initial situation

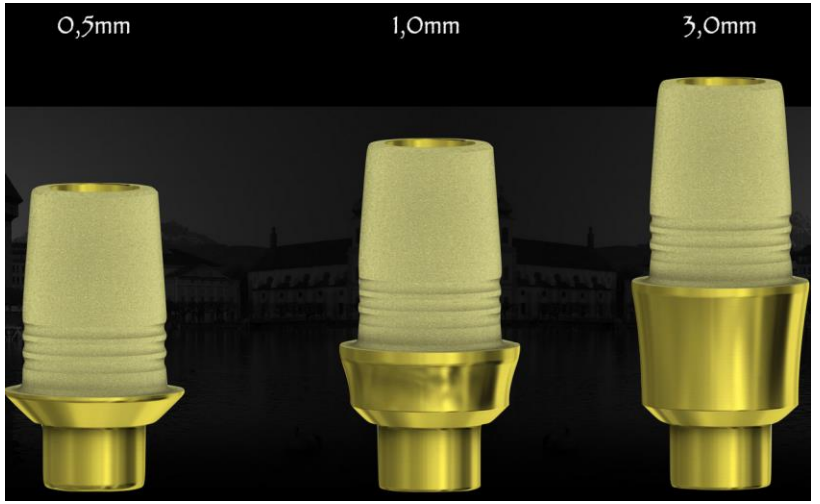




Planning

Respecting the biology of the supracrestal complex, it was decided to move the restoration base away from the bone.

At the same time, in order to achieve a fitting emerging profile, the restoration design had to start deep enough. The best match for both considerations was a 1mm high **C-Base®**.



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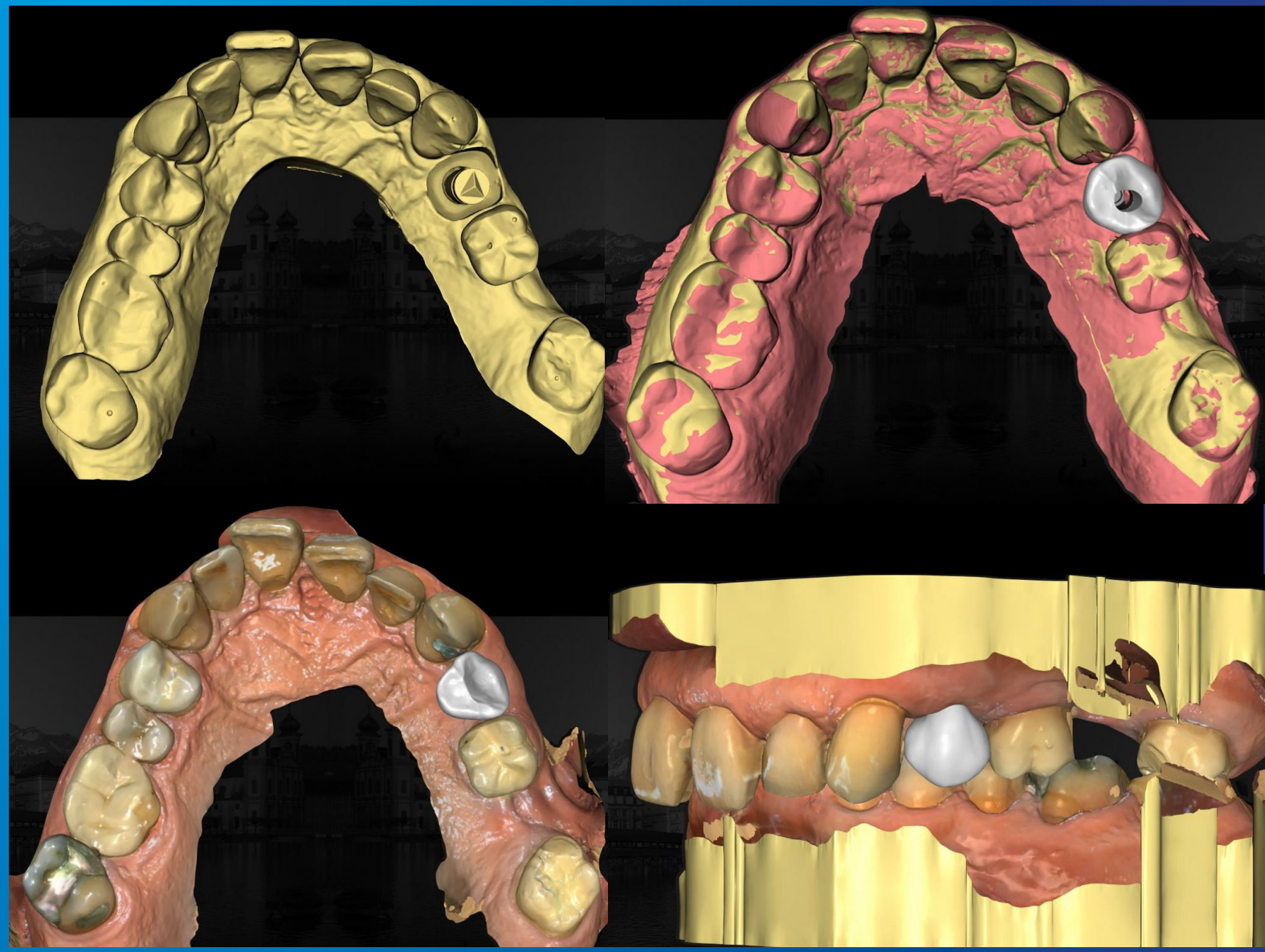
Since the base was very deep, it was decided to work with a scan body and move the workflow on a printed cast. The X-Ray shows the perfect fit of the scan post.

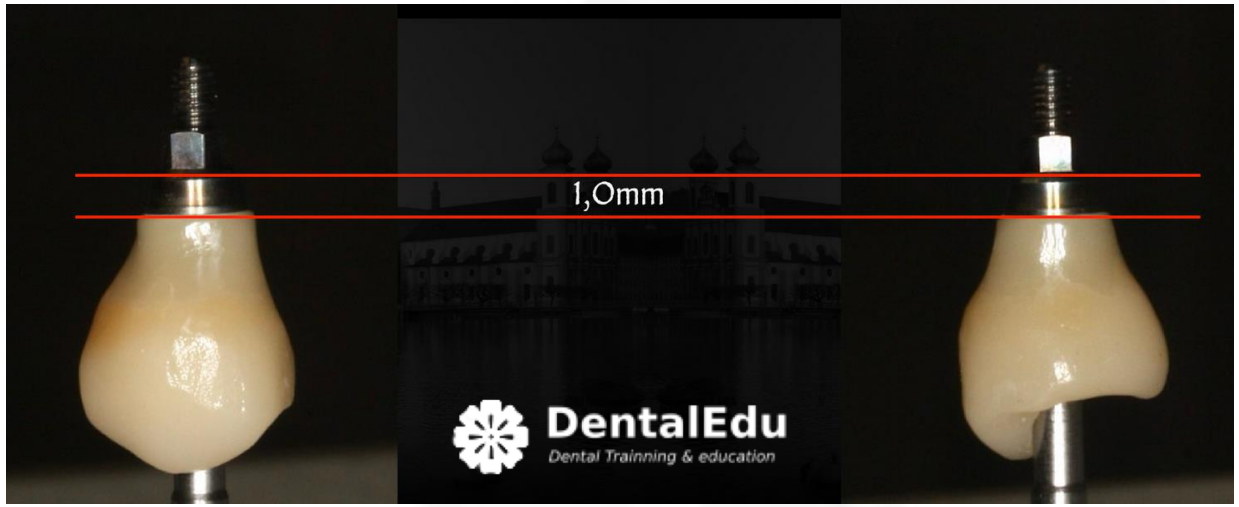
On the printed model an additional scan with the **C-Base®** was performed and the crown was designed in-house with inLab. The zirconia crown was milled with a 5-axis machine.

Some characterization as well as needed adjustments were completed lab-side on the printed cast.



Once the crown was finished, it was cemented on the **DESS®** **C-Base®** with the using a bonding agent and luting cement.

The supracrestal complex with its biologic considerations was respected with the 1mm high **C-Base®** and a polished zirconia surface of approx. 3mm.



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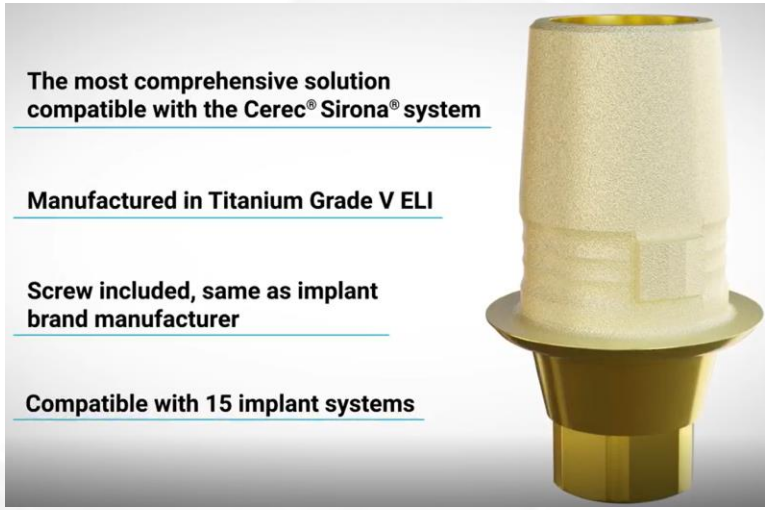
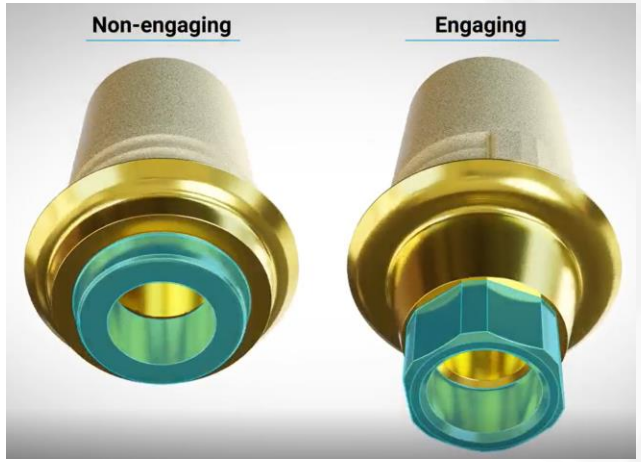
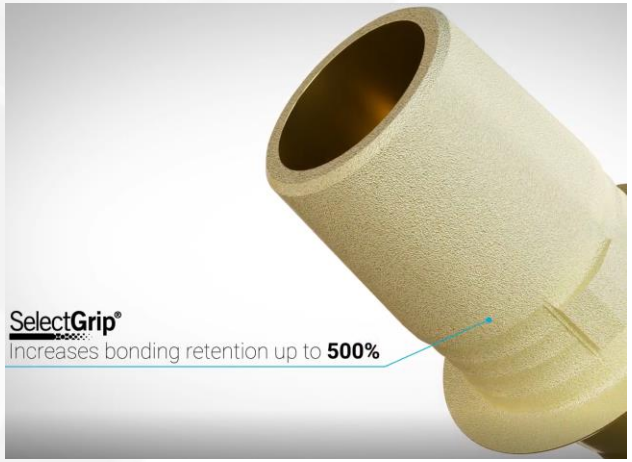
C-Base®

DESS ref. 58.XXX non-engaging - 59.XXX engaging







TECHNICAL INFORMATION

- Titanium Grade V ELI 23
- Gold anodized surface
- SelectGrip® surface treatment
- Two versions: engaging and non-engaging
- Tipically a cementing surface of 56,60mm²
- Shaft height of 4,68mm
- Combined with our free libraries for Exocad®, 3Shape®, Dental wings® and Blenderfordental®
- CE: Class IIb
- FDA: Class II

FEATURES

- Pure Switch® concept
- Multiple gingival heights options: 0,3-3,0mm depending on the system
- Screw included - same screw design as OEM
- Same Sirona Ti-Base design and shape

CLINICAL BENEFITS

- SelectGrip® surface treatment: 5x better cement retention
- Warmer gingival tone in case of gingival retraction

15 SYSTEMS

- NOBELACTIVE® & NOBELREPLACE® CC
- NOBEL REPLACE SELECT™
- NOBEL BRÅNEMARK®
- 3i OSSEOTITE®
- 3i CERTAIN®
- STRAUMANN® SOFT TISSUE LEVEL & synOcta®
- STRAUMANN® BONE LEVEL
- ZIMMER SCREW-VENT®
- ASTRA TECH IMPLANT SYSTEM™ EV
- ASTRA TECH OSSEOSPEED™
- DENTSPLY FRIADENT XiVE®
- DENTSPLY ANKYLOS® C/X
- OSSTEM® TS
- CONELOG®
- BIOHORIZONS® INTERNAL

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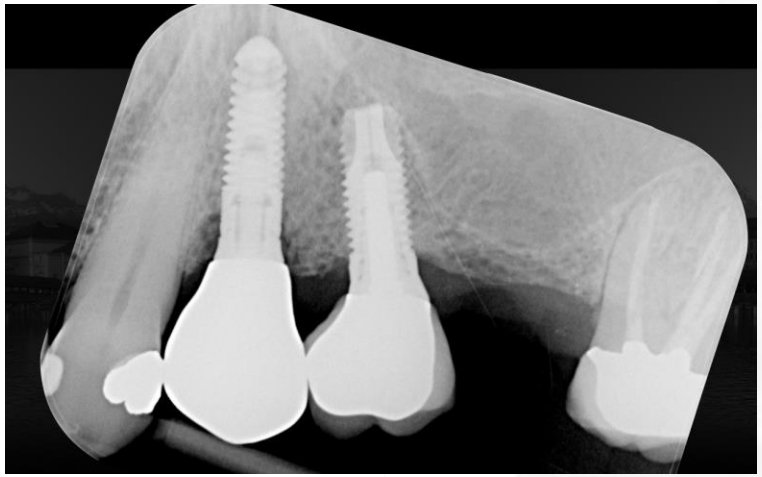


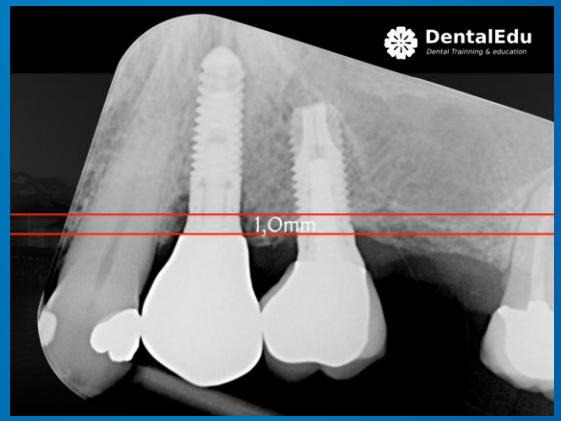
Conclusion

Once the crown was ready, it was screwed in with the recommended torque (30 Ncm) indicated on each blister of the **DESS® abutments.**

No occlusal or approximal adjustment was needed and the last X-Ray was carried out for verification.

When scaning with the **C-Base®**, you can start designing the crown from the base itself, achieving a perfect match in both the occlusal and approximal surfaces. The shape of the **C-Base®** optimizes the support of the connective tissue in the critical areas of the supracrestal complex.

The anodized surface boosts the biologic integration of the restoration.



Dr. Konstantinos Tokmakidis

Switzerland

- **Degree in Dentistry (DDS) 1996-2003.** Ernst-Moritz- Arndt- University of Greifswald (Germany)
- **PHD (Dr. Med. Dent) in Implant Loading and Loading concepts with a "Magna Cum Laude" decoration 2004-2007.** Rwth Aachen University (Germany)
- **Post-Graduate Prosthetics Certification 2004-2008.** Rwth Aachen University (Germany)
- **Post-Graduate Certification in Implantology 2007-2009.** Rwth Aachen University (Germany)
- **MSC in Periodontology and Implant Therapy 2012-2014** University of Dresden (Germany)
- **Private Practice in Adligenswill, Lucerne.** Oral Implantology, Prosthetics and Aesthetic dentistry with an in-house lab.
- **Founder of DentalEdu:** Post-graduate dental education

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