Single tooth restoration with NobelPearl™

Michael Gahlert
Germany
**Patient**
Female, 42 years old, healthy

**Clinical situation**
Healthy oral conditions, good bone quality
Anodontia tooth 35 and 45 (FDI Scheme)

**Surgical solution**
NobelPearl™ single implant

**Restorative solution**
Prefabricated ceramic abutment retained by VICARBO® Definitive Clinical Screw. The full ceramic crown was cemented with Ketac™ Cem Glass ionomer cement.

**Surgery date(s)**
07/08/2018 and 11/10/2018

**Total treatment time**
4 months

**Tooth position**
Tooth gap 25 (FDI Scheme)

“For me the most important attributes of NobelPearl ceramic implants are the unique carbon-fibre screw for effective abutment anchorage, strong alumina-toughened zirconia material, and the micro-rough surface for predictable osseointegration.

Two-piece NobelPearl ceramic implants are the future metal-free alternative for established titanium implants!”
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| Healthy soft-tissue condition. The persistent milk tooth 75 is visible under normal bite conditions. | Top. Lip line during laughing shows the tooth gap. Bottom. Healthy soft-tissue conditions and adequate bone for implantation.
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<td>Visible gap 25 and persistent milk teeth 75 and 85, but no other pathologic alterations in the orthopantomogram (OPG).</td>
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<td>Good anatomic condition for implant insertion.</td>
<td>Prepare implant site using NobelPearl Tapered Twist Drill.</td>
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NobelPearl Tapered Drill creates the tapered osteotomy. The diameter is indicated on each tool by color code (yellow for 4.2 mm diameter).

The ridge of the drill stopped at the bone level to ensure the machined collar of the implant (1.6 mm) is placed supracrestal.
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Pick-up of the NobelPearl implant with the implant driver out of the sterile box.
Occlusal view after implant placement. PEEK Cover Screw Inter-X for closing the inner part of the implant and protecting thread during the submerged healing.

Side view after implant placement. PEEK Cover Screw Inter-X for closing the inner part of the implant.
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**OPG 2 months after implant insertion.**
Occlusal view after healing period of 3 months. Soft-tissue without any irritation was growing around the implant and on top of the cover screw.

Incision procedure as first step for prosthetic rehabilitation.
Top. Changing the PEEK Cover Screw with a PEEK NobelPearl Healing Abutment for soft-tissue contouring.
Bottom. The PEEK NobelPearl Healing Abutment allows the soft-tissue to form around the implant shoulder and the abutment.

Occlusal view of the NobelPearl implant after removal of the Healing Abutment. Tissue around the implant shows no irritation.

Case courtesy of Michael Gahlert 11/16
Screw-retained NobelPearl Impression Coping Open Tray Inter-X was screwed to the implant in order to take an impression.

Screw-retained NobelPearl ceramic abutment was fixed with a VICARBO® Clinical Screw with a torque of 25 Ncm. Pattern resin was used to position the abutment.
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<td>Occlusal view of final restoration. All ceramic crown fixed by Ketac&lt;sup&gt;™&lt;/sup&gt; Cem Glass ionomer cement on the ceramic abutment.</td>
<td>Side view of final restoration.</td>
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**OPG before surgery.**

**OPG 3 months after surgery.**

Case courtesy of Michael Gahlert
Lip line during smiling shows the tooth gap before surgery.

Lip line during smiling shows the natural appearance and the esthetic result at 3 months after surgery.
Case courtesy of Michael Gahlert