Encode® Impression System

OPTIMIZATION
BY DESIGN

CUSTOMIZED TREATMENT SOLUTIONS
HARD- AND SOFT-TISSUE MAINTENANCE
PRACTICE GROWTH

BellaTek

PROVIDING SOLUTIONS – ONE PATIENT AT A TIME™
OPTIMIZATION IS KEY TO BELLATEK® DIGITAL DENTISTRY SOLUTIONS

The BellaTek Encode® Impression System provides optimized solutions to clinicians by eliminating the need for implant level impressions, which streamlines the treatment process for the surgeon, restorative clinician and laboratory. In addition, patients have a better experience and a beautiful aesthetic outcome.

Here’s how the BellaTek Encode Impression System is designed to optimize your practice:

**Hard- And Soft-Tissue Maintenance**
- No need to remove the healing abutment, preserving tissue and resulting in aesthetic outcomes

**Customized Treatment Solutions**
- Choose a simple impression method above the gingiva to create aesthetic BellaTek Patient Specific Abutments in titanium, gold-colored titanium nitride or zirconia

**Practice Growth**
- End-to-end treatment solutions for everyone involved allow for a more efficient workflow, less inventory to stock and provide a vehicle for practice growth
Hard- And Soft-Tissue Maintenance
Patient Aesthetics Through Hard- and Soft-Tissue Preservation

How To Maintain Tissue Health

The oral mucosa (soft tissue) is a unique anatomical and physiological tissue. A healthy intact mucosa is essential for teeth and oral health. Dental implants require an intact peri-implant mucosa for successful integration and maintenance. Adherent peri-abutment mucosa sulcus is credited with reducing or limiting both microbial and oral cavity content through the sulcus to the implant microgap region.

Reduced Abutment Swaps

Unique codes on the occlusal surface of the BellaTek® Encode® Healing Abutment relay abutment design and milling information, eliminating the need for an impression coping. This reduces abutment swapping, preserving the peri-abutment mucosal sulcus interface and maintaining the sealing function.

Clinical Relevance

Studies show that abutment swapping (dis/reconnects) negatively affects peri-abutment mucosal sulcus tissues and contributes to the loss of alveolar crestal bone (hard tissue). Crestal bone regression leads to soft-tissue recession and reduced aesthetics.

Aesthetic Outcome For The Patient

One supragingival impression of the BellaTek Healing Abutment results in a BellaTek Patient Specific Abutment ready for cementation and delivery of the definitive prosthesis.

“An appreciation of the protective effect of the soft tissue barrier is important for providing optimal aesthetic outcomes. Recent studies show that multiple abutment swaps (dis/reconnections) are associated with increased crestal bone loss. These findings suggest using the fewest number of abutment swaps to achieve better aesthetic and functional results. Ultimately, the goal is to use “one abutment, one time” and the BellaTek Encode Impression System provides an important step for achieving this objective”.

– Xavier Vela Nebot†, M.D., D.D.S., Spain


†Dr. Calvo-Guirado, Dr. Nebot, Dr. Rodriguez, Dr. Tarnow and Dr. Vela have financial relationships with BIOMET 3i LLC resulting from speaking engagements, consulting engagements and other retained services.
Customized Treatment Solutions
For You and Your Patients

The patented BellaTek Encode Impression System is the gateway to creating a customized solution for you and your patients. When you eliminate the need for impression copings and conventional impression materials, the process is streamlined for you and the patient experience is improved by making it easier and more comfortable. This technology is unique to and only available from BIOMET 3i.

The process is simplified with the BellaTek Encode Healing Abutment!

1. Take a digital impression of the BellaTek Encode Healing Abutment*

2. Make a traditional impression of the BellaTek Encode Healing Abutment.

The result: a highly aesthetic BellaTek Definitive Abutment

Benefits For The Patient

Comfort:
- There is no need to use impression copings, resulting in a less invasive impression procedure for more comfort.

Fewer Visits:
- The intraoral scan can be taken by the specialist at the surgical release visit, eliminating a restorative appointment and resulting in less visits to the dentist’s office.

Aesthetic Outcomes:
- Abutments designed specifically for the patient for better aesthetic outcomes

*Compatible with the following systems: 3M™ Lava™ C.O.S., 3M™ True Definition, Align iTero™, Sirona CEREC AC, Sirona CEREC AC Omnicam.
**Surgeon**

- Efficient, streamlined interoffice processes simplify treatment for the referring dentist
- Cutting edge technologies create an improved and more simple treatment process, differentiating the practice to referring dentists and more importantly, to patients
- The BellaTek™ Encode® Impression System makes it easier for your referral base and may increase treatment acceptance

**Practice Growth**

*End-to-End Treatment Solutions that Optimize the Workflow for the Entire Team*

**Laboratory**

- Potential new customers may lead to increased crown and bridge business
- There is no need to create a cast, which results in less steps in the treatment process, reducing overhead
- This unique branding opportunity may grow the volume of your business

**Restorative Clinician**

- No implant-level impressions are required - resulting in a simpler and quicker process; minimizing chairtime
- There are no parts to order, eliminating the need to stock components
- There is increased patient satisfaction due to an easier and more comfortable impression procedure
- You have the ability to restore the case in less office visits
**Digital Impression**

**Fig. 1.** BellaTek Encode Healing Abutment placed intraorally for scanning.

**Fig. 2.** iTero digital impression captured.

**Fig. 3.** iTero digital impression STL file imported by the dental laboratory into CAD software.

**Fig. 4.** A BellaTek Custom Abutment is designed and fabricated by BIOMET 3i and is exported to Align Technology for model fabrication.

**Fig. 5.** An iTero model milled with the custom abutment as the removable die and adjacent crown preparation dies.

**Fig. 6.** Restorations created by the dental laboratory with fit verification on the milled die and abutment.

**Fig. 7.** A BellaTek Abutment placed.

**Fig. 8.** Definitive restorations placed immediately following abutment placement.

**Fig. 9.** Digital x-ray verification of restoration marginal integrity.

**Clinical Treatment by Dr. Deborah Ruddell, Fort Myers, FL, USA.**

**Laboratory restorations fabricated by Rick Sonntag, 4Points Dental Design Inc., St Petersburg, FL, USA.**
Clinical Treatment by Dr. George Priest†, Hilton Head Island, SC, USA.

Traditional Impression

Fig. 1. A BellaTek™ Encode® Healing Abutment placed intraorally

Fig. 2. The impression of the BellaTek Encode Healing Abutment demonstrating transfer of the codes

Fig. 3. The master cast of the BellaTek Encode Healing Abutment that was sent to the BellaTek Production Center

Fig. 4. The Robocast analog placement

Fig. 5. A BellaTek Custom Abutment designed in CAD software, which accompanied the master cast

Fig. 6. The gold-colored titanium nitride-coated BellaTek Abutment and definitive restoration

Fig. 7. A clinical photograph taken after placement of the definitive restoration

Fig. 8. A post-restorative periapical radiograph at one month post placement