

# The *BellaTek*<sup>®</sup> Encode<sup>®</sup> Impression System

Optimization By Design<sup>®</sup>



**BIOMET 3i**<sup>™</sup>  
PROVIDING SOLUTIONS - ONE PATIENT AT A TIME<sup>™</sup>

# Optimization Is Key To Aesthetics

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.

*"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.<sup>1,2</sup> 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  
(Member Of The BORG Group)*

## Optimization Is Key To BellaTek® Digital Dentistry Solutions

### 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

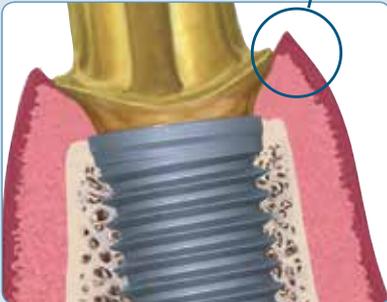
### Practice Growth Through Better Patient Care

- 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

*Mucosal Barrier*



*BellaTek Encode Healing Abutment*



## Patient Aesthetics Through Hard- and Soft-Tissue Preservation

### How To Maintain Tissue Health

The oral mucosa (soft tissue) is unique anatomical and physiological tissue. A healthy intact mucosa is essential for teeth and oral health.<sup>3</sup> 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.<sup>4</sup>

### 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).<sup>5</sup> Crestal bone regression leads to soft-tissue recession and reduced aesthetics.<sup>6,7</sup>

### 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.

### Aesthetic Outcome For The Patient

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

# Customized Treatment Solutions

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.

## 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.

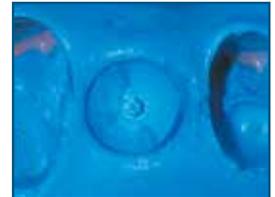
## The process is simplified with the BellaTek® Encode® Healing Abutment!

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



or

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



## The result: a highly aesthetic BellaTek Definitive Abutment



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

# Practice Growth Through Better Patient Care

## 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.

## 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.

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



1. Canullo L, Bignozzi I, Cocchetto R, Cristalli MP, Iannello G. Immediate positioning of a definitive abutment versus repeated abutment replacements in post-extractive implants: 3-year follow-up of a randomized multicenter clinical trial. *Eur J Oral Implantol*. 2010 Winter;3(4):285-96.
2. Rodriguez X<sup>1</sup>, Vela X<sup>1</sup>, Mendez V, Segala M, Calvo-Guirado JL<sup>1</sup>, Tarnow DP<sup>1</sup>. The effect of abutment dis/reconnections on peri-implant bone resorption: A radiologic study of platform-switched and non-platform-switched implants placed in animals. *Clin. Oral Impl. Res.* 00, 2011, 1-7.
3. Lang NP, Schätzle MA, Löe H. Gingivitis as a risk factor in periodontal disease. *J Clin Periodontol* 2009; 36 (Suppl. 10): 3-8.
4. Schubach P. The defense architecture of the human periimplant mucosa: a histological study. *J Prosthet Dent.* 2007 Jun;97(6 Suppl):S15-25.
5. Abrahamsson. 1997 *Journal of Clinical Periodontology* 1997; 24: 565-572. The mucosal barrier following abutment dis/reconnection. An experimental study in dogs.
6. Hartman G. Initial implant position determines the magnitude of crestal bone remodeling. *JOP* 2004 Apr; Vol 75, No. 4.
7. Hartlev J, et al. Immediate placement and provisionalization of single-tooth implants involving a definitive individual abutment: A clinical and radiographic retrospective study. *COIR* 2012 Mar; DOI: 10.1111/j.1600-0501.2012.02442.

<sup>1</sup>Dr. Calvo-Guirado, Dr. Nebot, Dr. Rodríguez, Dr. Tarnow and Dr. Vela have financial relationships with BIOMET 3i LLC resulting from speaking engagements, consulting engagements and other retained services.

## Digital Impression



Fig. 1. Preoperative photograph. Patient lost tooth no 8. Treatment plan involves implant placement and augmentation due to resorption.



Fig. 2. A 4/3 x 13mm Certain® Tapered PREVAIL® Implant was placed.



Fig. 3. A BellaTek Encode Healing Abutment was placed. During healing, an acrylic Maryland bridge was attached to the adjacent teeth.



Fig. 4. The intraoral scan starts with scanning the BellaTek Encode Healing Abutment and adjacent teeth, opposing arch and occlusion.



Fig. 5. The BellaTek Encode Healing Abutment will appear on the screen for verification of a complete scan and occlusal registration.

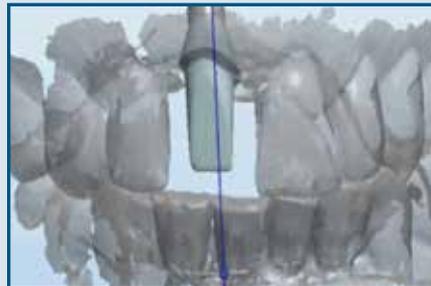


Fig. 6. The definitive abutment design is completed and the file is sent to the milling machine for fabrication of the definitive abutment in Titanium.



Fig. 7. The BellaTek Encode Healing Abutment was removed for the first time since implant placement.



Fig. 8. The BellaTek definitive Abutment was placed and secured with a Square Gold-Tite® Abutment Screw tightened to 20 Ncm.



Fig. 9. From a second scan, the crown was designed virtually and milled in the CEREC mill locally or sent to a CEREC dental laboratory.



Fig. 10. The crown was tried-in and cemented. Occlusion and articulation contacts were checked and adjusted as necessary.

Clinical Treatment by Pär-Olov Östman, DDS<sup>†</sup>, Falun, Sweden

<sup>†</sup>Dr. Pär-Olov Östman has a financial relationship with BIOMET 3i LLC resulting from speaking engagements, consulting engagements and other retained services.

# System Case Presentations

## Traditional Impression



Fig. 1. Facial view of the BellaTek® Encode® Healing Abutment in place.



Fig. 2. A master cast was fabricated in low-expansion die stone from the polyvinylsiloxane impression of the Bellatek Encode Healing Abutment.

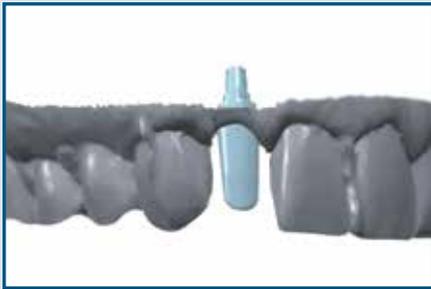


Fig. 3. After scanning the master cast, the BellaTek Abutment was designed virtually.

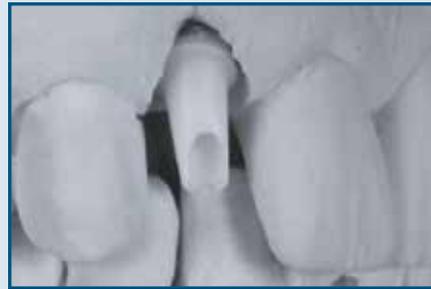


Fig. 4. An implant analog was placed into the master cast using Robocast Technology. The BellaTek Abutment was placed on the master cast for fabrication of a definitive all-ceramic restoration.



Fig. 5. The BellaTek Abutment was placed into the implant and secured with a BellaTek Gold-Tite® Abutment Screw.



Fig. 6. The all-ceramic restoration was placed.

Clinical Treatment by Robert G. Ritter,  
DMD<sup>†</sup>, Jupiter, FL, USA.

<sup>†</sup>Dr. Robert G. Ritter has a financial relationship with BIOMET 3i LLC resulting from speaking engagements, consulting engagements and other retained services.

# Looking For Optimized Digital Dentistry Solutions? Choose The BellaTek® Encode® Impression System Today!

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[bellatek.biomet3i.com](http://bellatek.biomet3i.com)

*For More Information, Please Contact Your Local BIOMET 3i Sales Representative.*



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