

BellaTek[®]
Encode[®] Impression System

Optimization By Design[®]



BellaTek Digital Dentistry Solutions

Optimization By Design

Optimization Is Key To Aesthetics

The BellaTek Encode Impression System is designed to provide optimized solutions to clinicians by eliminating the need for implant level impressions, which aims to streamline the treatment process for the surgeon, restorative clinician and laboratory. In addition, patients have a better experience and a beautiful aesthetic outcome as compared to traditional techniques using material and impression copings.

Hard- And Soft-Tissue Maintenance

- No need to remove the healing abutment,* preserving tissue and resulting in aesthetic outcomes^{1,2}

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



“An appreciation of the protective effect of the soft-tissue barrier is important for providing optimal aesthetic outcomes. Recent studies show that multiple abutment removals (disconnections/reconnections) are associated with increased crestal bone loss. These findings suggest using the fewest number of abutment removals to achieve better aesthetic and functional results.^{1,2} 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

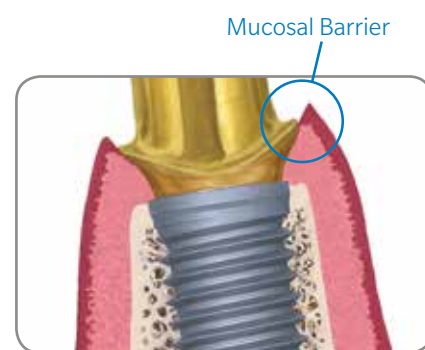


Hard- And Soft-Tissue Maintenance

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.³ Dental implants require an intact peri-implant mucosa for successful integration and maintenance. Adherent peri-abutment mucosa is credited with reducing and limiting both microbial and oral cavity content through the sulcus to the implant microgap region.⁴



Clinical Relevance

Studies show that multiple abutment removals (dis/reconnects) negatively affect peri-abutment mucosal sulcus tissues and contributes to the loss of alveolar crestal bone (hard tissue).⁵ Crestal bone resorption leads to soft-tissue recession and reduced aesthetics.^{6,7}



Reduced Abutment Swaps

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



BellaTek Encode Healing Abutment

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 proprietary 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 Zimmer Biomet Dental.

Benefits For The Patient

Comfort

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

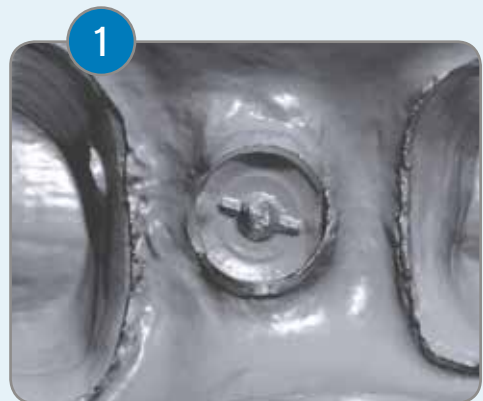
Aesthetic Outcomes

- Abutments designed specifically for the patient for better aesthetic outcomes compared to stock abutments.

The Result: An Aesthetic BellaTek Definitive Abutment

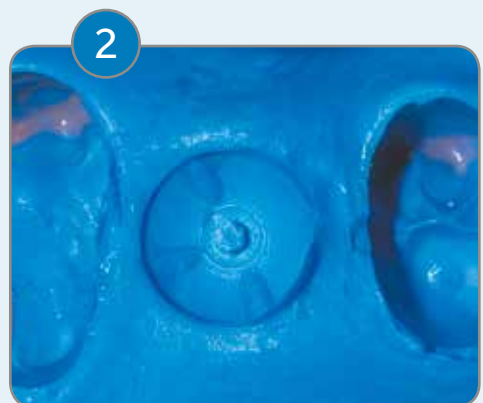


Simplified Impressions Compared To Traditional Techniques With The BellaTek Encode Healing Abutment!



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

OR



Make a traditional impression of the BellaTek Encode Healing Abutment.

End-to-End Treatment

Solutions Designed To Optimize The Workflow For The Entire Team

Surgeon

- Efficient, streamlined interoffice processes designed to simplify treatment for the referring dentist
- Cutting edge technologies create an improved and more simple treatment process compared to traditional techniques, differentiating the practice to referring dentists and more importantly, to patients
- The BellaTek Encode Impression System makes it easier for your referral base compared to traditional techniques 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 fewer steps in the treatment process compared to traditional non-encode cases that do not use an IOS machine, reducing overhead
- This unique branding opportunity compared to traditional non-encode procedures that other clinicians maybe using may grow the volume of your business

Restorative Clinician

- No implant-level impressions are required resulting in a simpler and quicker process as compared to traditional non-encode cases that do not use an IOS case using a traditional impression, 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 compared to traditional non-encode cases that do not use an IOS case using a traditional impression
- You have the ability to restore the case in fewer office visits compared to traditional non-encode cases that do not use an IOS case using a traditional impression



Clinical Perspectives

Replacement of a hopeless mandibular molar with an implant-supported CAD/CAM abutment and restoration

The patient was a healthy 73-year-old man who presented with a right mandibular first molar that was unrestorable due to interradicular caries. The treatment plan called for extraction of the tooth followed by placement of an implant and a BellaTek Encode Healing Abutment two months later. The definitive prosthesis was a BellaTek Titanium Abutment with a cemented crown. The patient provided informed consent, and treatment unfolded as follows:



Fig. 1. Eight weeks after extraction of the molar, the bone was immature, but the height and width were adequate to accommodate a wide-diameter implant.



Fig. 2. A flap was reflected, revealing the immature state of the newly created bone in the extraction site.



Fig. 3. After osteotomy creation, a 5.0 mm diameter x 10mm long T3 Tapered Implant was placed. The restorative platform of this implant was 4.1 mm wide.



Fig. 4. The primary stability was good with >50 Ncm starting torque, and the condition of the soft tissues was good, enabling immediate placement of a BellaTek Encode Healing Abutment.



Fig. 5. The soft-tissues were secured with intermittent sutures. Healing was uneventful, and when the patient returned 10 days later for suture removal, the soft tissue looked healthy.



Fig. 6. Six weeks after implant placement, the width of the attached mucosa was stable. The appearance of the soft tissue was also excellent.

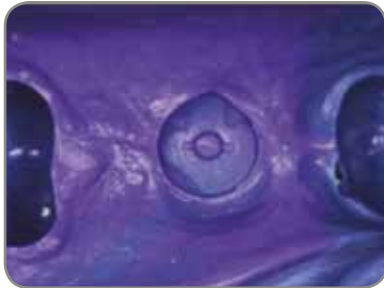


Fig. 7.
At the six-week postoperative appointment, a conventional elastomeric impression was made of the BellaTek Encode Healing Abutment.



Fig. 8.
A BellaTek Titanium Abutment was milled from a solid blank of titanium and placed in the master cast at the Biomet 3i BellaTek Production Center.



Fig. 9.
The definitive abutment and the master cast were sent to the ceramist, who fabricated a porcelain-fused-to-metal crown.



Fig. 10.
The definitive patient-specific BellaTek Titanium Abutment was placed in the implant; the margin was only slightly subgingival. The Gold-Tite® Screw was torqued to 20Ncm.



Fig. 11.
Eight weeks after placement of the implant, the definitive crown was cemented to the BellaTek Abutment.



Fig. 12.
Clinical view of the implant with healthy mucosa and no recession two months after prosthesis delivery and four months after implant placement.



Fig. 13.
Periapical radiograph six months after prosthesis delivery. Note the crestal bone level on the mesial and distal aspects of the platform-switched implant.

Kai Fischer, DMD*



Dr. Fischer graduated in dentistry in 2009 and received his title "Dr.med. dent" in 2011. Between 2010-2012, he was working as a Clinical Assistant Professor at the Department of Periodontology, University of Wuerzburg, Germany where he obtained further training in periodontology and implant dentistry. In 2013, he became a Specialist in Periodontics. From 2013-2016 he was a Honorary

Research Associate & Clinical Teaching lecturer at UCL Eastman Dental Institute, London, UK and at the University Witten/Herdecke. Currently he works at Drs. Schütz/Tawassoli, Würzburg - Private dental practice.

References

- 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†, Vela X†, Mendez V, Segala M, Calvo-Guirado JL†, Tarnow DP†. 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, Lõe H. Gingivitis as a risk factor in periodontal disease. J Clin Periodontol 2009; 36 (Suppl. 10): 3–8.
 - 4 Schupbach P. The defense architecture of the human peri-implant mucosa: a histological study. J Prosthet Dent. 2007 Jun;97(6 Suppl):S15-25.
 - 5 Abrahamsson. 1997 Journal of Clinical Periodontal 1997; 24: 56S-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.
- * Procedure may vary based on patient and clinical variables. Not all cases can be performed without implant level impressions.
- ** Compatible with the following systems: 3M™ Lava™ C.O.S., 3M True Definition, Align iTero™, Sirona CEREC Bluecam and Sirona CEREC Omnicam.
- † These clinicians have or had financial relationships with Zimmer Biomet Dental resulting from speaking engagements, consulting engagements and other retained services.

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



Contact us at 1-800-342-5454 or visit
zimmerbiometdental.com

Zimmer Biomet Dental
Global Headquarters
4555 Riverside Drive
Palm Beach Gardens, FL 33410
Tel: +1-561-776-6700
Fax: +1-561-776-1272

Unless otherwise indicated, as referenced herein, all trademarks are the property of Zimmer Biomet; and all products are manufactured by one or more of the dental subsidiaries of Zimmer Biomet Holdings, Inc., and distributed and marketed by Zimmer Biomet Dental (and, in the case of distribution and marketing, its authorized marketing partners). All third party company names and product names used in this document are for identification purposes only, and are the property of their respective owners. For additional product information, please refer to the individual product labeling or instructions for use. Product clearance and availability may be limited to certain countries/regions. This material is intended for clinicians only and does not comprise medical advice or recommendations. This material may not be copied or reprinted without the express written consent of Zimmer Biomet Dental. ZBINST0004 REV B 06/17 ©2017 Zimmer Biomet, All rights reserved.

