

bredent medical

## The new generation of whiteSKY ceramic implants



The whiteSKY implant system from bredent has already been on the market for over 15 years and the first generation of whiteSKY implants is one of the best documented zirconia implant systems available. Numerous studies have proven their stability, good osseointegration, superior aesthetics and longevity. The system has also proven itself in the clinical practice: The long-term survival rate of zirconia implants is at par with implants made of titanium. The new, slightly concave shape in the sulcus area of the whiteSKY T.L. offers more space for the peri-implant soft tissue which further improves the aesthetic result and soft tissue seal, especially in the area of transition from the gingiva to the implant crown. In addition, the design of the abutment has been optimised for direct intra-oral scan and CAD/CAM restorative workflow. With the whiteSKY T.L. implant, the demanding production from HIP (Hot Isostatic Pressed) zirconia and the proven surface treatment of its predecessor have been retained. This autumn, the whiteSKY Tissue Line will be complemented by the whiteSKY Alveo Line.

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## High-speed sintering—so fast, so beautiful, so safe

Consisting of the High-Speed Ceramill Therm DRS sintering furnace and the specifically developed Zolid DRS zirconia, the High-Speed Zirconia Kit provides the perfect basis for the ultra-fast fabrication of highly aesthetic zirconia restorations. The restorations

can be sintered in just 20 minutes and offer maximum efficiency with a natural appearance due to the perfectly coordinated 16 VITA shades with integrated shade and translucency gradient. The focus of the development was clearly on the issue of safety, as only durable restorations are of benefit to the laboratory, the clinician and the patient. For this reason, numerous studies were conducted by renowned external institutes during the development phase. The result was conclusive: the fast sintering cycle has no relevant influence on optical or mechanical properties. In addition, the high flexural strength of >800MPa and the associated classification as a Class 5 zirconia provides an additional safety cushion. Both laboratories and dental practices benefit from this innovative high-speed sintering process enabling them to add the so-called "Same Day Crown" to their service offering. Due to the extremely shortened sintering process, single-tooth crowns and three-pontic bridges can be realised in just one day. What's more, the fabrication of other indications can also be shortened considerably. For example, an implant restoration consisting of a zirconia abutment and a crown can now be fabricated in less than 24 hours with the High-Speed Zirconia Kit.

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**Straumann**

## Natural ceramic—proven quality

PURE ceramic implants have an ivory colour that resembles natural tooth roots. This gives the most natural look even in thin gingiva biotypes. ZLA, the surface of the PURE ceramic implant, is characterised by macro- and micro-roughness which is similar to the original Straumann SLA surface. In several studies, the ZLA surface has also demonstrated similar healing patterns, healing times and osseointegration qualities with regards to peri-implant bone density and bone-to-implant contact (BIC). In addition, the zirconia-based ZLA surface of PURE implants shows a favourable formation of the epithelial attachment, as well as significantly lower bacterial accumulation compared to titanium-based SLA surfaces.

Compared to titanium implants, a higher degree of soft-tissue integration around the PURE ceramic implant was observed in scientific studies. By placing the Straumann PURE ceramic implant system, excellent aesthetic outcomes with favourable soft-tissue attachment and papilla formation around the implant can be achieved.

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**ZiBone**

## A wide range of zirconia products

Based on more than 30 years of experience, COHO has been producing orthopaedic and dental implants, and surgical instruments made from zirconia for many years. In collaboration with renowned experts and research units from National Taiwan University, a wide variety of ZiBone zirconia products have been launched in the past, including implant drills, pilot drills, tissue punch devices, tissue trimmers, scalpels, or elevators. COHO is always looking to advance research on surface treatment to reduce metal-related health risks for patients and to facilitate safety and convenience during surgery. COHO is currently working towards the market entry of Zircasso, IZI and a tissue-level implant system. In addition, COHO offers the new Deguide Kit, a set of accurate tools designed and developed by Dr Noran Debasso, which provides patients with a simple way to clean their implants and achieve good oral hygiene. Based on a novel, encompassing technique from Dr Noran Debasso, the Deguide Kit is a solution that does not require CBCT and that fits every type of dental implants. To find out more, go to [www.zibone.com](http://www.zibone.com).

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Z-SYSTEMS

## Z-SYSTEMS Ceramic Implants—100% Ceramic, 100% Swiss

Ceramic implants have been at the cutting-edge of dental implant technology for over a decade, and are becoming increasingly popular with patients and practitioners worldwide. As a market leader, Z-SYSTEMS has taken another leap forward with its innovative Z5-BL (Bone Level) and soon-to-be-released Z5-TL

(Tissue Level): the world's first two-part, screw-retained implants made entirely of ceramic. For the first time, completely submerged healing is now also possible with ceramic implants.

The Z5-BL's advantages are evident in its beautiful bone level



design and a unique variety of abutments. A high-precision, extremely stable conical connection between the abutment and the implant makes it possible to use this material even for the occlusal screw. Many practitioners also like to work with tissue level implants—especially in biological dentistry. In recognising these clinical demands, Z-SYSTEMS is rapidly following the release of the Z5-BL with an equally-revolutionary Z5-TL. These latest releases build on the proven platform of Z-SYSTEMS heritage line: the Z5m, Z5m(t) and Z5c. Each Z-SYSTEMS product features the technology's unique, patented laser surface for outstanding osseointegration. The company's proprietary manufacturing process has produced a top-quality implant family renowned for its great durability. In addition to fixed restorations, removable locator-like abutments are also possible on all two-piece Z-SYSTEMS implants. Available lengths are 8, 10 and 12 mm and diameters are 3.6, 4.0 and 5.0 mm.

**Z-SYSTEMS Ceramic Implants**

**Switzerland**

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Zircon Medical

## Master of zirconia: The Patent™ Dental Implant System

Zircon Medical, Swiss-based manufacturer of the Patent™ Dental Implant System, has truly mastered zirconia with its complex proprietary manufacturing process. Patent™ Implants feature a unique and purposeful design that works together perfectly with the material characteristics of zirconia. On its intra-bony portion, the Patent™ Implant has an incredibly rough surface (6µm), which attracts bone cells to a particularly high degree. This hydrophilic and osteoconductive surface facilitates the rapid forming of a fibrin network only a few minutes after implant insertion, which accelerates contact osteogenesis and particularly optimises the early stages of healing. The result is rapid and successful osseointegration of the Patent™ Implant. This was recently demonstrated by Dr Roland Glauser and Dr Peter Schüpbach, who reported in an in-press study on mini-pigs that Patent™ Implants achieve a bone-implant contact of roughly 70% after only four weeks of healing, outperforming every implant system documented to date. On its transmucosal portion, the implant has a machined surface which attracts epithelial cells, creating an incredibly strong attachment of the soft tissue. The Patent™ Implant system incorporates yet another

unique solution: the system's tight prosthetic connection is achieved by means of a high-tech glass fibre post, which is cemented to the implant and which can easily be prepared for any kind of crown or bridge restoration. Zircon Medical produces everything in-house and can therefore guarantee quality control regarding the production of the components for the ultimate benefit of the patient.



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**One-Day Course**

BluePoint Brussels Conference Center

**April 23, 2022**

**Brussels (Belgium)**

# One-Day Course **ON CERAMIC IMPLANTS**

Co-organised by EACim and Société de Médecine Dentaire (Belgium)



**MORNING BLOCK  
FROM 9:00 TO 12:30**

- DR PHILIPPE DUCHATELARD (FR):  
Is Zirconia an Alternative to Titanium  
in Implant Dentistry?
- PROF. ERIC ROMPEN (BE):  
Osseo- and Muco-integration of  
Ceramic Implants.

**AFTERNOON BLOCK  
FROM 14:00 TO 17:30**

- DR GIANCARLO BIANCA (FR):  
Zirconia implant: Close to the Natural Root?
- DR PASCAL EPPE (BE):  
Prosthetics on Ceramic Implants: The Keys to Success

**Lecture Program in French.**

For further info and registration contact: [secretariat@dentiste.be](mailto:secretariat@dentiste.be)



association dentaire belge francophone  
**SOCIÉTÉ DE  
MÉDECINE  
DENTAIRE**  
asbi

<https://eacim-ceramic-implantology.com/>





TAV Dental

## Innovation for a healthier world

TAV Dental is focused on developing and manufacturing zirconia dental products using the advanced ceramic injection technology with a vision to redefine the quality of zirconia dental products and its performances and to make these premium implants common worldwide. We offer a variety of solutions in the field of dental implants under one roof. The passion behind developing zirconia products for dental implantology is to provide patients with products that are much healthier for their bodies along with the advantage of uncompromising aesthetic results. The white colour

of zirconia ceramic implants, its biocompatibility and low plaque affinity, along with its high mechanical properties and osseointegration rates, make it a material of choice. TAV Dental offers a one-piece zirconia implant with integrated abutment and a two-piece zirconia implant with slot connection geometry, which optimises the force transfer applied on the implant connection during insertion and, as a result, simplifies implant placement.

**TAV Dental • Israel • +972 4 9808615-503 • [www.tavdental.com](http://www.tavdental.com)**

CaviTAU®

## The radiation-free view into the jawbone

The newly developed CaviTAU® is an imaging ultrasound technique for displaying bone density & quality in the jaw area. CaviTAU® therefore provides implantologists with practice-relevant information on implant success. Ultrasound-based imaging is a safe and minimally invasive technology in medicine. CaviTAU® penetrates solid and healthy bone tissue faster than structurally damaged bone tissue. Alveolar cancellous bone pathologies with low bone density can be safely assessed with the CaviTAU® technique of trans-alveolar ultrasonography (TAU).

CaviTAU® measurement results are displayed on a colour monitor and determine bone density with different colours. Digital X-ray technology determines the available bone quantity for the implantologist and Digital CaviTAU® technology determines the available bone quality for the implantologist — both procedures together ensure implant success.

**CaviTAU® • Germany • +49 89 90421762 • [www.cavitau.de](http://www.cavitau.de)**



Dentalpoint

## Your partners for the fully digital workflow with ceramic implants

With Zeramex Digital Solutions and the new CS 3800 from Carestream Dental, it will now be even more convenient to plan and implement ceramic implant restorations precisely and completely digital.

Zeramex Digital Solutions offers the complete digital workflow to create patient-individual restorations on Zeramex XT ceramic implants: from abutments and healing caps to monolithic restorations without any cementation gap. All components made of zirconium oxide are also available as multilayer and stained and glazed—within one week. These CAD/CAM treatment options are ideally complemented by the new CS 3800 intra-oral scanner. Stefan Haupt, Solutions Product Specialist at Carestream Dental, sums up the advantages: “The slim and wireless design of the CS 3800 ensures better handling with increased comfort during the scanning process. The enlarged field of view as well as the depth of field

of 21 mm even enables the simple scanning of edentulous patients.” With the CS 3800, Carestream Dental paves the way to absolute freedom with all the options of a real end-to-end workflow. “It is a great opportunity to enter the completely digital workflow with Zeramex implants”, explains Adrian Hunn, CEO Dentalpoint, and “we are convinced that two-part ceramic implants and the digital workflow will remain the dominant topics in implantology.”



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CAMLOG

## Natural aesthetics with the CERALOG® Implant System

The demand for highly aesthetic, natural-looking restorations is continually increasing. This trend favours ceramic implant solutions with high levels of biocompatibility, particularly zirconia, known for its excellent soft-tissue compatibility. The CERALOG® Implant

System is established and has been in clinical use for more than seven years. It offers a high level of predictability and provides aesthetically pleasing results. The two-piece design of the system that allows for screw-retained prosthetics offers great benefits. CERALOG® is easy to use, owing to the simplified prostheses, lean instrumentation, and clearly structured surgical procedure. Options for the treatment workflow include flexible trans- or submucosal healing of the two-piece CERALOG® Hexalobe implant and transmucosal healing of the CERALOG® Monobloc implant. The implants are made of yttria-stabilised tetragonal zirconia, which is a ceramic widely used in the dental industry and other highly demanding medical fields. The ivory colour of the material, which is very close to that of a natural tooth, and the properties of zirconia lead to natural-looking results. Zirconia is chemically inert, making it especially suitable as an implant material. Due to its manufacturing process called ceramic injection molding (including sintering and hot isostatic pressing), it offers an outstanding combination of excellent mechanical properties and high strength.

**AESTHETICS**

The ivory colour, which is close to the natural tooth colour and the properties of zirconia supports high aesthetic results.



**IDEAL CONNECTION**

Hexalobe – the ideal implant-abutment connection for ceramic implants. The torque is transmitted tangentially to the implant, which allows a much higher torque compared to hexagonal connections, and also more rotational stability.

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