

breident medical

Zirconia implant as alternative to titanium

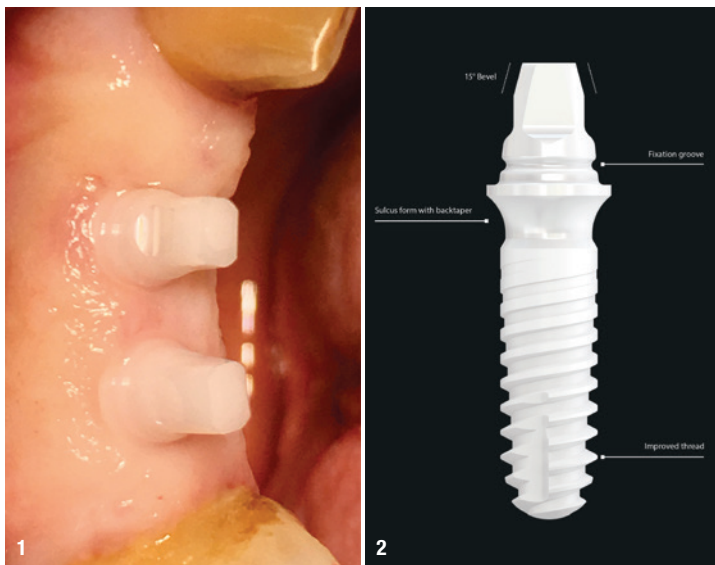


Fig. 1: Clinical case with the whiteSKY Tissue Line by Dr Gallizia, France.
Fig. 2: The new whiteSKY Tissue Line zirconia implant-reshaping scientific success.

The whiteSKY Tissue Line and Alveo Line ceramic implants incorporate all the features of the “classic” whiteSKY implant in an improved, contemporary design and new shape which has been scientifically and clinically proven. The zirconia implant is truly comparable to titanium and has no treatment limitations. This makes it a reliable alternative for patients with metal allergies, those who want to lead a metal-free lifestyle and those needing implants in the aesthetic-zone to ensure that dark shading does not affect the aesthetic outcome of the restoration. Zirconia is also perfectly suited for implants since its strength is comparable to that of titanium and exhibits ideal elasticity and long-term resistance to fracture.

Dr Claude Gallizia from France stated titanium equates to bio tolerance whilst zirconia offers total bio compatibility. “In practical terms, I am pleased to say that with whiteSKY, we get minimal post-operative pain, achieve beautiful osseointegration and get a phenomenal reaction from bone and gingival tissues.”

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SIC invent

Innovative dentistry, one hundred per cent metal-free

Ceramics is an alternative to titanium for specific indications. The two-part, metal-free SICwhite implant lets the attending dentist, working closely with the patient, decide which treatment philosophy and which technology is the right one for a given indication. In Dentalpoint AG –Zeramex, we have found the ideal partner for technological joint ventures in ceramics. With more than 15 years of experience, they are one of the innovation leaders in ceramic implants.

Dr Pascal Marquardt, a specialist in prosthodontics and oral implantology and a dedicated

member of the Schilli Implantology Circle explains: “In 2016 I discovered this new option of the VICARBO® screw. The combination of high-strength PEEK thermoplastic polymer and specially aligned carbon fibres in the abutment screw and the most stable ceramic material on the market in the implant itself—finally successfully rivalled the common components of titanium implants in terms of strength and long-term clinical success.” Compared to titanium implants, so the experienced implantologist, the low plaque adhesion and the lower peri-implantitis rates that have emerged in recent reports make ceramic implants a particularly interesting option in patients with periodontal disease or who have issues with proper oral hygiene. The favourable soft-tissue reaction makes for uncomplicated handling in the aesthetic zone. Dr Marquardt also emphasises the complex manufacturing process of the SICwhite, in which both the implant and the abutment are milled from particularly strong, fully sintered ATZ ceramics providing maximum safety in terms of the fracture strength of these ceramic implants. It is true that not all cases are suitable for ceramic implants today. But given the developments over the last few years, we have good reason to expect that a growing range of indications and an increasing variety of implant types will eliminate many of today’s restrictions in the future.



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Zircon Medical Management

Master of zirconia: The Patent™ Dental Implant System

While other ceramic implant manufacturers struggle with early osseointegration failure and high fracture rates, Zircon Medical Management, the manufacturer of the Patent™ Dental Implant System, together with leading scientists and a team of highly experienced material experts, has succeeded in mastering the complex process of manufacturing zirconia implants in a unique way—employing a process that has been protected by 14 patents. All surface-machining steps are carried out prior to sintering. Through the proprietary manufacturing process, a surface roughness is achieved (6 µm) that is up to five times rougher than conventional zirconia implant surfaces. In the subsequent sintering stage, potential process-related microcracks are eliminated. Moreover, the design of the Patent™ Dental Implant System does not merely mimic the design of titanium implants. Rather, its design was purposefully engineered to perfectly complement the material characteristics of zirconia. The result is a true tissue-level zirconia implant that is unparalleled in terms of fracture resistance, osseointegration and long-term stability. In addition, the entire manufacturing process—from raw material assembly to milling and final packaging—takes place exclusively at two proprietary production sites in Germany. Therefore, Zircon Medical Management is able to guarantee Patent™ users absolute quality control. Choose long-term stability. Choose reliable osseointegration. Choose Patent™ Implants from Zircon Medical Management, the master of zirconia.



The two-piece Patent™ Dental Implant System is entirely metal-free. It consists of the implant itself and an incredibly strong yet flexible glass fibre abutment, which, having dentine-like properties, attenuates the masticatory forces within the context of definitive restoration.

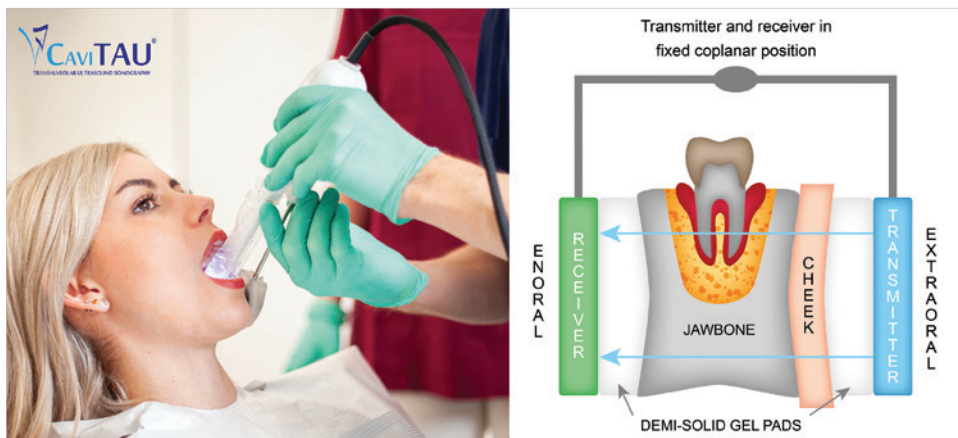
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CaviTAU

New insight into an underrecognised entity

Why do implants fail? Why do more and more people become chronically ill? Is an undetected disease “silent inflammation of the jawbone” behind it? Many questions, one modern answer: the digital-quality determination of bone density through ultrasound sonography—CaviTAU®. Such, the dentist localises chronic and pathogenetic inflammation patterns, cleans them up in surgical “Jawbone Detox steps” and thus turns from a dentist into a systemic-immunologically oriented and integrative Oral Physician.

With the newest version of the english book *Cavitational osteonecrosis in jawbone* by Dr Johann Lechner, you will be guided in over 390 pages, with 120 illustrations and



CaviTAU® application with LED gel pad and schematic representation of transalveolar sonography.

over 200 literature citations through all the science behind CaviTAU®. The book can be ordered online at the website www.icosim.de.

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ZiBone

A wide range of zirconia products

Zirconia is a well-known highly biocompatible material. Given more than 30 years of manufacture and research experience, COHO has produced orthopaedic, dental implants and surgical instruments for many years. Furthermore, COHO has cooperated with several world-famous dental experts and research units from National Taiwan University for launching various zirconia products, expanding application of zirconia, and last but not the least, the advancing surface treatment research to reduce the evitable risks during surgery and implantation by using metal materials in order to reach our terminal goal of enhancing the safety and convenience during surgical procedure. Currently Zibone has a series of zirconia products in the market, such as: zirconia implant drill, pilot drill, tissue punch, tissue trimmer, scalpel, elevator, etc. Now, COHO and doctors are working closely and hopefully not far from the future to introduce Zircasso, IZI and tissue level implant system in the market. Therefore, we are so pleased to see doctors' trust and allow us to manufacture the tools as needed and lead to the ideal working environment as you wish.



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Straumann

Changing lives by giving smiles back: SmileAward 2022



Every day, around the globe, we know dental professionals rely on Straumann to give patients the confidence to smile again, to laugh, to show off their smiles, to eat the foods they love. Thousands of dental professionals use our products and solutions to rebuild the quality of life for patients and to unlock the potential of people's lives. While Immediacy Protocols stood in the focus in 2021, the SmileAward 2022, welcomed dental professionals to show us how they are changing the lives of their patients through full-arch rehabilitation or clear aligner therapy. They are invited to submit their best patient stories and share with the world the many ways that dentistry can restore confidence and improve our well-being. The 2022 SmileAward aspires to be the most inspiring, most uplifting clinical case competition.

Submission requirements

The required documentation includes all relevant diagnostics and step-by-step illustrations. It is also required to submit a 4-minute video that combines high-definition clinical images with the testimonial of the patient. All cases fulfilling the criteria will go through to a public vote. A jury composed of key opinion leaders in dentistry will select the final winners, who will be announced at EuroPerio10.

Timeline

- Submission of cases: by 20 July
- Public voting: 1 Aug–29 Aug
- Selection of winners by jury: 1 Sept–14 Sept
- Announcement of winners: EAO Congress, Geneva (29 Sept–1 Oct)

Great prizes

All finalists in both categories will be awarded a prize so that they can continue changing lives together with Straumann. The top three winners in both contest categories will be #GivingSmilesBack with the materials needed to complete one or more pro bono cases, and our top winner in each category will also get their patient video story edited professionally, and it will be seen with worldwide visibility across Straumann channels and platforms. Our winners can also opt for a #ChangingLives prize, a donation to a philanthropic organisation in their honour—or for a #BoostingYourPractice prize in which the top winner in each category will take home a TRIOS intra-oral scanner.

Institut Straumann AG • Peter-Merian-Weg 12 • 4052 Basel Switzerland • www.straumann.com/smileaward

Zeramex

Dr Rouven Wagner on his experience with 2ingis guided surgery for Zeramex implants

Nowadays, digital workflows are an integral part of the daily routine of an implantology dental practice. In addition, optical impressions and CAD/CAM workflows are already covered during studies at almost every university in order to learn about different digital tools and their advantages. “I studied in Leipzig, where Prof. Ludwig Graf and Dr Wolfram Knöfler dealt with titanium implant alternatives very early on”, explains Dr Rouven Wagner. “That’s how I got into the world of ceramic implants. I also looked into the subject during my oral surgery training and my master’s degree at the IMC under the supervision of Prof. Ulrich Joos. Finally, I wrote my master’s thesis on ceramic implants.” Dr Rouven Wagner started working with Zeramex because he was convinced by the metal-free implant with the carbon fibre-reinforced VICARBO® screw and its prosthetic flexibility. With the Zeramex implant, the usual workflow can be maintained. “I tested several surgical guides. Unfortunately, some of them were partly inflexible and not open. That’s why I chose 2ingis, an open-source system that gives me a lot of flexibility. I have the full field of vision and can decide whether a punch is enough or whether I should open up. The water cooling is also excellently solved,” says the implantologist. Especially in the anterior region, it is safe to work with a 3.5 mm Zeramex implant in narrow gaps in the lower jaw. With an analogue impression, one could damage the orthodontic appliance or change it much too much. Great results could also be achieved with treatments in combination with orthodontic restorations. Surgical guides make it possible to place an implant in a pre-planned location and determine the exact position of it. This has the advantage that the implantation is easier and the treatment time is shorter. The surgical procedure can be performed in a way that is gentler



on the tissue and more comfortable and safer for the patient, as few or no soft tissue incisions are required.

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CAMLOG Biotechnologies

Digital workflow with the CERALOG® Implant System

The demand for highly aesthetic, natural-looking restorations is continually increasing—so is the demand for efficient workflows. The well-established CERALOG® Implant System will shortly be complemented with a bonding base, allowing to efficiently plan

and manufacture the restorations for CERALOG® two-piece implants. The CERALOG® bonding base CAD/CAM PS as well as all other new components will be platform switched—opening the pathway for more efficient workflows and improved aesthetic outcomes. With these new prosthetic components CAMLOG confirms its commitment for a ceramic system which is easy to use, with lean instrumentation, and clearly structured surgical procedures.

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Fig. 1: CERALOG® bonding base CAD/CAM PS. Combining the benefits of platform switching with efficient digital workflows. **Fig. 2:** Hexalobe—abutment connection for ceramic implants. The torque is transmitted tangentially to the implant, which allows a much higher torque compared to hexagonal connections, and more rotational stability. 2