MIS announces release of B+ implant surface

In March 2017, MIS Implants Technologies is officially launching its latest in implant engineering, the B+ implant surface treatment, at the International Dental Show in Cologne. The B+ layer bonds chemically with the surface of the titanium dioxide of an implant and integrates perfectly with existing and newly forming bone, achieving greater initial osseointegration and longer-term stability.

Dr Björn-Owe Aronsson, who developed this unique surface together with his team at Nano Bridging Molecules, has presented case studies in which B+ proved very efficient in maintaining the bone level over time. This is particularly beneficial for patients with compromised bone healing and poor blood supply. The specific bone-bonding properties of the surface have proved to produce greater fixation of the implant in the early stages post-placement, as well as greater stability later on.

Aronsson explains: “Titanium is used as implant material due to its inertness and high acceptance by the body. Over the years, however, a wish for faster and more predictable integration with the bone has been driving research on the importance of the surface structural and chemical properties.”

The surface consists of a monolayer of multi-phosphonate molecules. These have a very high affinity to titanium dioxide, enabling a true covalent bond. The unique properties of this layer also make it extremely hydrophilic, which facilitates the colonisation of cells on the surface naturally. Research has even shown that blood vessels grow directly into the surface of the implant, which is unaffected by the oral environment and has been proved very stable in different pH levels.

“With the initial results from testing of the B+ surface, it was discovered that, for the first time, specific biochemical bonding can be obtained already at the very early healing phase after implantation,” Aronsson said.

MIS was very excited to learn about these discoveries and immediately saw the potential for a major breakthrough. Having been seeking a suitable company to partner with, Aronsson and his team were equally enthusiastic about embarking on the commercialisation phase with a company able to achieve rapid implementation in clinical practice and with a strong position in the market to advance their product. Most recently, MIS has launched a user experience project involving 250 participants worldwide, who will be placing ten implants each with the B+ surface and reporting their experiences. The results of studies conducted by Aronsson and his team are extremely promising and both partners are exploring future applications for this advancement.

For more information on MIS products and services, visit www.mis-implants.com.
multilayered high-translucency full-contour zirconia

Strength meets aesthetics in full-contour zirconia from NobelProcera

Full-contour zirconia restorations are growing in popularity. Long-associated with high strength, advances in zirconia materials have led to substantial improvements in aesthetics and efficiency. A perfect example is the high-translucent, multilayered full-contour zirconia from NobelProcera.

Achieve aesthetic results in less time

With NobelProcera's full-contour restorations, aesthetics and efficiency have been considered at every step. At the start of the process, powerful CAD tools in the NobelDesign software make it straightforward to design an aesthetic restoration.

At the production stage, the restorations are produced with the consistent quality and precision of fit NobelProcera production is renowned for.

NobelProcera full-contour restorations do not require veneering or sintering, so less labour is needed to finalise the restoration. Excellent occlusal details and surface finish mean the technician need only apply subtle staining, if desired, before polishing and glazing.

The multilayered nature of the zirconia also helps save time. By mirroring the natural colour variations between the cervical margin of a tooth, the dentine and the enamel, the technician has less work to do to achieve an aesthetic result. Aesthetics are further enhanced by the high translucency of the material, making NobelProcera full-contour zirconia restorations suitable even for anterior cases.

In cases where the technician feels traditional ceramic layering is required to achieve the desired aesthetic result, a partial cutback of the material is easy to do in the NobelDesign software. The ceramic can then be layered on top to create an optimised blend of high-end aesthetics and high-strength monolithic zirconia.

There are aesthetic advantages for the clinician when it comes to placement of the restoration, too. As the colour runs throughout the material, any final adjustments will not cause colour variations or white spots on the restoration.

Chosen for strength that lasts

Strength remains a key benefit of monolithic zirconia and NobelProcera’s full-contour zirconia exhibits strength at a level that helps prevent remakes.

NobelProcera’s full-contour zirconia has been selected for properties that support outstanding durability. It has been shown to undergo minimal monoclinic shift, meaning its structure resists changes caused by pressure and moisture over time, making the material highly durable.

Plus, with full-contour restorations, the risk of veneer chipping is removed.

NobelProcera is expanding its range of full-contour zirconia solutions over time, increasing choice and flexibility, with each option designed to address the patient’s long-term functional and aesthetic patient needs. Given the benefits in terms of strength, durability, aesthetics and ease of use, NobelProcera full-contour zirconia restorations are set to be a popular choice for clinicians and dental technicians alike.

To see the latest additions to the NobelProcera range of full-contour zirconia solutions, visit Nobel Biocare at IDS in Hall 10.1.

www.nobelbiocare.com
MIS 2017 global learning programme

Sharing knowledge and experience through education

March will mark the start of a series of workshops organised by MIS Implants Technologies that will focus on various topics and be led by world-famous practitioners in different parts of the world. The offering includes courses on basic implantology in Germany and China, a workshop on the MULTIFIX solution in Portugal and a course taught in Turkey on the fundamentals of aesthetic smile design.

Dr Eric Van Dooren, a key opinion leader in implant dentistry and the co-developer of MIS’s V3 implant, will be teaching a course on the VCONCEPT in his training centre in Antwerp in Belgium, where he has been conducting courses and workshops for the past 12 years. He explained that the purpose of the centre is to offer courses with a focus on periodontology, prosthetics and implantology that give participants the opportunity to witness live surgeries. Participants enjoy high-tech audio-visual and are able to take advantage of live streaming.

The latest series of courses will focus on the integration between prosthetic and surgical implant treatment concepts and will highlight soft-tissue management in the aesthetic zone, both through theoretical material and a live surgery demonstration.

Van Dooren added: “Since we are focusing on new concepts and trends, the VCONCEPT really helps us in explaining that modern implant dentistry is changing compared to a few years ago.”

Van Dooren also incorporates the MIS MGUIDE guided surgery solution in the curriculum to show students that guided surgery today is really a very predictable tool to obtain excellent functional and aesthetic results. Furthermore, course participants will plan a case using the MIS MSOFT guided surgery planning software.

Participants who have taken Van Dooren’s courses in previous years have provided positive and enthusiastic feedback. The hands-on experience with the MGUIDE system has led to a great response from dentists, who have begun using these methods in their practices since attending the course.

Van Dooren plans to continue lecturing on these topics and incorporating the V3 implant and MIS digital dentistry tools and methods in future courses at the training centre.

More information on MIS global educational events can be found at www.mis-implants.com/education/MTC.aspx.

Growing the business with mySimplant Planning Service

mySimplant Planning Service eases dental professionals into the world of implant treatment, as well as facilitates the more complex cases—a solution to grow the business without compromising the clinical outcome of the cases. Think of it as a behind-the-scenes coach supporting and empowering you with the tools needed to easily plan and safely execute a surgery, and giving you the possibility to rely on an experienced partner to build your business while staying in control of your implant planning cases.

Easy to learn and use

The intuitive online system lets dental professionals get acquainted with computer guided implant treatment in their own time and on their own terms. They simply fill in the online web order form to receive a Simplant planning proposal from the Simplant technician for review within two days. Taking into account that the guide is manufactured within 48 hours after approval, this entire process can take less than five days.

Save time and money

Outsourcing 3-D implant planning reduces case time significantly and avoids expensive investments in software licenses. With Simplant Editor, clinicians have the freedom to review, adjust if necessary, and approve the plan anytime, anywhere, leaving more time to focus and treat patients.

Precision and protection in each plan

Precise planning is the best measure of a predictable outcome. Designed to achieve higher accuracy and minimise risks involved with standard ‘free-hand’ implant placement, Simplant guides are based on more than 100,000 patient-specific planning cases, giving you confidence and peace of mind. The fact that mySimplant Planning Service operates in the secure environment of mySimplant.com guarantees that patients can rest assured that their data is protected.

Getting started with computer guided implant treatment is easy and affordable—go to mySimplant.com

www.dentsplysirona.com