Zimmer Dental offers space-maintaining resorbable porcine membrane

CopiOs Extend Membrane can be used in guided tissue regeneration and guided bone regeneration

By Zimmer staff

Zimmer Dental Inc., a leading provider of dental rehabilitation products and a subsidiary of Zimmer Holdings Inc., is pleased to announce the availability of the CopiOs Extend™ Membrane — a biocompatible and resorbable, collagen-based membrane, derived from porcine dermis — for use in a variety of dental surgical procedures, including guided tissue regeneration (GTR) and guided bone regeneration (GBR).

CopiOs Extend Membrane offers clinicians the synergy of space and time — promoting optimum resorption and space-maintaining conformance. Lasting six to nine months, the membrane’s extended resorption profile is designed to allow implant placement while subsequently providing ample time for unhindered regeneration. In addition, CopiOs Extend Membrane has been designed to conform to the defect with enough structural integrity for necessary space creation. Its cell occlusive nature allows nutrients to permeate while blocking epithelial cells, thereby creating an environment more suitable for successful GTR and GBR procedures, for example.

Clinicians can feel confident in the safety and performance of the easy-to-use CopiOs Extend Membrane. The biocompatible membrane is comprised of highly purified, intact dermis. Supplied sterile, it can be implanted dry or slightly hydrated. Once applied, the membrane is malleable and easy to reposition.

“Zimmer Dental continues to demonstrate a strong commitment to improving patients’ lives and providing clinicians with safe and effective products,” said Harold C. Flynn Jr, Zimmer Dental president. “With the launch of CopiOs Extend Membrane, we have further expanded our industry-leading regenerative portfolio, which complements our innovative dental implants and tried-and-true restorative offerings. Clinicians can rely on this long-lasting, resorbable membrane for a range of oral surgical procedures — from localized ridge augmentation and alveolar ridge reconstruction to filling bone defects, GBR and GTR — for manageable and predictable regenerative outcomes.”

For more information regarding this regenerative option, contact a Zimmer Dental sales consultant or customer service at (800) 854-7019, or visit www.zimmerdental.com.
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**Legacy™4 Implant**

All-in-1 Packaging includes implant, fixture-mount, abutment, transfer, cover screw & healing collar — $225 SBM, $250 HA surface

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- Quadruple lead micro-threads
- Progressively deeper buttress threads
- Three long cutting grooves
- Torque-safety feature prevents damage to implant interface
- Square top detaches with impression for metal to metal transfer accuracy
- Two-Piece fixture-mount (patent pending) with preparable abutment

**A Legacy of Innovation from Dr. Gerald Niznick**

Legacy 4 – the culmination of 30 years of evolution

Introducing a revolutionary 2-piece fixture-mount/abutment that provides the accuracy of an open-tray transfer with the simplicity of a closed-tray transfer.

Square top detaches with the impression, providing a snap attachment for abutment/analog.

The abutment portion of the fixture-mount snaps onto the transferred top for the accuracy of a metal-to-metal connection.
Legacy™ 6mmL Implants
Short in Length, Long on Stability

Legacy™ 6mmL Advantages:

Industry-Compatible Internal Hex Connection (Niznick US. Pat. #4,960,381)
Provides a secure, anti-rotation implant-abutment junction

More Choices
Six widths (3.7, 4.2, 4.7, 5.2, 5.7 or 7.0mm)
Two surface options (SBM or HA)

Tapered Body with Double-Lead, Self-Tapping Threads
Speeds insertion while enhancing initial stability

Quadruple-Lead Micro-threads (Niznick US. Pat. #7,677,891)
Reduces crestal bone loss

Greater Surface Area
Increases stability and load-bearing capacity

All-in-1 Packaging
Three Packaging Options - each with Cover Screw and 2mm Healing Collar
Legacy2: $175 Fixture-mount is transfer and can be sectioned for use as temporary abutment
Legacy3: $200 Fixture-mount is transfer and can be sectioned for use as final preparable abutment
Legacy4: $225 2-Piece Fixture-mount is super-accurate transfer and final preparable abutment

Joining the Legacy Family for the Widest Range of Dimensional Options

7 Diameters (mm) 3.2 3.7 4.2 4.7 5.2 5.7 7.0
6 Lengths (mm) 6 8 10 11.5 13 16

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Reduce treatment time with digital dentistry

By Dean H. Saiki, DDS, and Grant Bullis, Glidewell Laboratories director of implant R&D and digital manufacturing

A 72-year-old female patient complained of a loose lower denture that was painful to wear and chew with. A routine examination revealed a pronounced lack of bone volume in the lower ridge in conjunction with a relatively high floor of the mouth, making relines ineffective. The decision was made to proceed with a screw-retained, provisional fixed denture supported by four implants. The restorative protocol for this case used state-of-the-art techniques to improve the accuracy of implant placement, optimize the function and esthetics of the provisional, and reduce the time required for treatment.

Treatment objectives

The objective of the treatment plan was to improve patient comfort and chewing function by replacing the patient’s existing mandibular denture with a screw-retained fixed implant bridge. The provisional denture and final restoration would be designed with dental CAD software, using the setup from the existing denture.

Treatment planning

The patient’s existing denture was modified with fiduciary markers to serve as the CBCT scan appliance. To ensure maximum accuracy of the surgical guide, an extraoral scan of the denture was then taken. A CBCT scanner was used to scan the intraoral lower denture, maxillary denture and the bite.

Fig. 1: After digitally evaluating the quality and quantity of mandibular bone, implants and multi-unit abutments were virtually placed with the appropriate angling and depth for the bone morphology of the patient. (Photos/Provided by Glidewell Laboratories)

Once these DICOM datasets, stereolithography (STL) files were extracted. The bite scan was used to articulate the scans of the lower denture and the maxillary denture.

Once the datasets were accurately merged in the treatment-planning software, the implants were virtually selected and placed at the optimal positions and angulations for the available bone volume and prosthesis support. Multi-unit abutments were used to correct the angle of the two posterior implants and to provide a common restorative platform across all implant sites (Fig. 1).

The DICOM data was segmented for density, and models of the patient’s mandibular arch, provisional denture and surgical guide were 3-D printed and articulated, so the entire surgical and prosthetic stack could be examined and a surgical index fabricated on the articulated model between the guide and maxillary cast.

Implant placement

After administering mandibular anesthesia, the surgical guide was placed with the aid of the surgical index. The surgical guide was used to prepare the osteotomies and guide the placement of four 4.7 mm implants. Primary stability of all four implants was acceptable, and multi-unit abutments were mounted on top of the implants.

The temporary prosthesis was held in place with a luting index, and cold cure acrylic was used to fix the prosthesis to the multi-unit temporary cylinders. After curing, the prosthesis was removed and finished extraorally.

Final restoration

The final restoration protocol made use of intraoral scanning, dental CAD/CAM and 3-D printing to deliver the final prosthesis in just three appointments.

• First appointment: The patient’s provisional prosthesis was used to guide the design of the final restoration. First, a scan was taken of the provisional in the mouth, taking care to capture adjacent anatomical landmarks. Next, the opposing denture was scanned extraorally.

Two additional scans were taken of the lower denture seated in the mouth as well as the edentulous arch. At the laboratory, technicians used the scan data to design the final prosthesis, which included the milled titanium bar.

• Second appointment: The denture setup was placed with one screw tightened on the milled bar, and radiographs were taken to verify passive fit of the substructure. After making a minor fit adjustment, the provisional was reinserted and the verified denture setup was sent back to the lab.

• Third appointment: The lab processed the denture to the titanium bar with acrylic to finish the final prosthesis (Figs. 2a-c). The provisional was removed and the final fixed implant denture was delivered (Figs. 4a-d).

Conclusion

Guided surgery and dental CAD/CAM are complementary technologies that can make the surgical and restorative phases of implant therapy more efficient and predictable. By doing so, we can predict the implant position using guided surgery, and prosthetic design can be done presurgically.

Advanced treatment protocols that leverage digital impressions, treatment planning, guided surgery and dental CAD/CAM technology are transforming implant therapy, shortening treatment times and improving prosthetic outcomes.

‘Guided surgery and dental CAD/CAM are complementary technologies that can make the surgical and restorative phases of implant therapy more efficient and predictable.’
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*For plan details, please visit springstoneplan.com. †Based on findings from an independent research study of Springstone customers conducted July 2012.
Leveraging ATLANTIS patient-specific CAD/CAM solutions for your implant-supported restorations

By DENTSPLY Implants staff

The continued advancements in technology and product design further reinforce the simplicity and effectiveness of implant-supported restorative therapy. An excellent example of this is the ATLANTIS™ brand of patient-specific, CAD/CAM solutions, which includes cement-retained and single-tooth, screw-retained abutments, as well as the latest ATLANTIS ISUS suprastructures, including bars, hybrids and bridges for fixed and removable implant-supported prostheses for partially- and fully-edentulous patients. Available for all major implant systems, ATLANTIS abutments are designed and produced for the specific edentulous spaces in relation to the surrounding teeth and soft tissue, taking biology, anatomy and engineering principles into consideration. Unlike traditional prefabricated abutments that are circular in shape, the unique anatomical shape and emergence profile of ATLANTIS Abutments for cement-retained restorations help to promote long-term soft-tissue management and provide optimal support and retention of the final restoration, the company says.

In addition, for cases where the implant is placed deeper subgingivally, an ideal margin height can be customized and individually designed and manufactured for easy and safe removal of excess cement. ATLANTIS Abutments are available in titanium, gold-shaded titanium and four shades of zirconia for full versatility to meet all clinical preferences and patient-specific demands for function and esthetics. For single-tooth restorations, where the flexibility of a retrievable solution is desired, an ATLANTIS Crown Abutment is available in five different shades of zirconia, including a translucent option in white.

All ATLANTIS abutments are supported by the ATLANTIS Abutment Bio-Design Matrix™, which consists of four key features (ATLANTIS VAD™, Natural Shape™, Soft-tissue Adapt™ and Custom Connect™) that work together to support soft-tissue management for ideal functional and esthetic results. Incorporating ATLANTIS abutments also helps to eliminate the need for inventory management of stock components and simplify the procedure for implant-supported restorations, the company says.

With DENTSPLY Implants’ recent introduction of ATLANTIS ISUS suprastructures, the ATLANTIS portfolio is further expanded to also include a full range of bar, hybrid and bridge suprastructures for all major implant systems.

At AAID
For more information on DENTSPLY Implants product and technology, visit booth No. 707 here at the AAID.

ATLANTIS ISUS suprastructures are produced using the latest developments in CAD/CAM technologies and supported by computer-based industrial and medical device expertise. Unlike cast suprastructures, ATLANTIS ISUS suprastructures are milled from a choice of solid blocks of titanium or cobalt-chrome, eliminating the potential for a porous material, according to DENTSPLY.

Moreover, milling strategies have been optimized to ensure a precise, tension-free fit. ATLANTIS ISUS offers freedom and flexibility for restoring partially- and fully-edentulous arches and can be designed for attachment to two or more implants at the implant and/or abutment level. Using a wide range of attachment components, both fixed and removable prostheses options are available.

Whether it is an abutment or a suprastructure solution needed, incorporating ATLANTIS can be easy for both the clinician and the dental laboratory. All a clinician needs to do is to take an implant-level impression and send it to his or her laboratory of choice with a request for ATLANTIS. In addition to its simplicity, an ATLANTIS solution is often more cost-effective than a technician-cast or a custom-milled abutment.

For the laboratory, ATLANTIS can also be cost-effective because there is no need for investment in materials, hardware or software, something that is often a requirement of other CAD/CAM systems. For added peace of mind, all ATLANTIS solutions are also backed by competitive warranty terms.

For more information about ATLANTIS solutions, visit www.dentsplyimplants.com or contact your local DENTSPLY Implants representative.

*Implant-level placement is not recommended on ASTRATECH Implant System™ and contraindicated on ANKYLOS®. Available on abutment-level only in North America.

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Now available from your dental supplier or via wh.com/na.
Fascinating ergonomics

Surgical straight and contra-angle handpieces

By W&H staff

The new W&H straight and contra-angle handpieces not only make working more pleasant but also more flexible and less tiring, the company says. And all that with optimal visibility and perfect hygienic conditions.

Innovative performance features

The W&H product portfolio for surgical straight and contra-angle handpieces has been expanded and particularly impresses with its ergonomics, a Mini LED+ with daylight quality, flexible cooling with replaceable spray clips, a scratch-resistant surface coating and the first surgical contra-angle with a 45-degree head.

All straight and contra-angle handpieces can be fully dismantled for superior cleaning

Fatigue-free working

The ergonomic shape makes work less tiring.

The handpieces were specially designed for a wide range of users, regardless of whether they are right- or left-handed.

Perfect light with Mini LED+

The surgical straight and contra-angle handpieces are now equipped with a Mini LED+. This offers optimal illumination as the Mini LED+ can be integrated very close to the handpiece tip, thanks to its being half the size of a normal LED. For the first time, the WS-56 (1:1), WS-92 (2:7) contra-angle handpieces and the S-9 (6:4) straight handpieces are now available with light.

Flexible cooling

For the first time, cooling can now be individually adapted with replaceable spray clips, so the coolant is always in the right place, the company asserts. The spray clips (for WS-75, WS-75 LG, WS-56 and WS-56 LG) allow attachment of the coolant tubes for external cooling and the internal bur cooling (Kirschner-Meyer) on the left or the right.

Perfect hygiene

The new scratch-resistant coating on the surface of the straight and contra-angle handpieces offers the optimal basis for improved cleaning and hygiene, the company says. In addition, the new surgical straight and contra-angle handpieces can also be completely dismantled, thermo washer disinfected and sterilized up to 135 degrees C.

The first surgical contra-angle handpiece with a 45-degree head

The new WS-91 and WS-91 LG contra-angle handpieces with a 45-degree head unite the advantages of straight and contra-angle handpieces for the first time. The 45-degree angle allows considerably better access and better visibility of the treatment site. This makes palatinal access to the maxillary molars much simpler, even with a small mouth opening.

In contrast, in buccal applications, there is more space between the cheek and operating site. At the same time, the view is barely affected.

A ratio of 1:2.7 makes it possible to work quickly and effectively, allowing rotating instruments to achieve speeds of up to 125,000 revolutions per minute. A three-port spray guarantees sufficient cooling of the bur as well as the tooth and bone. According to the company, the contra-angle handpiece with a 45-degree head is ideal for surgical extractions of wisdom teeth, tooth separations and apical resections.

For more information on the all W&H products, visit www.wh.com/na.
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DoWell Dental Products focuses on quality and customer satisfaction

By DoWell staff

Since 2006, DoWell Dental Products has been growing rapidly in the dental industry. With our commitment to quality, many oral surgeons, periodontists and general dentists have taken notice and have chosen us to provide them with the materials and instruments needed for their practices.

The mindset of our company is to abide by basic fundamentals, providing quality products at competitive prices with great customer support and service.

DoWell Dental Products uses only genuine manufacturer parts; we are obsessed with quality and attention to detail, and our products will speak for themselves.

Our products vary from your basic equipment to dentistry’s most popular and traditional instruments. For instance, we carry the PiezoART surgical unit. Our PiezoART surgical unit is a machine that utilizes piezoelectric vibrations. By adjusting the ultrasonic frequency of the device, it is possible to cut hard tissue while leaving soft tissue untouched by the process. We also carry biological bone-grafting materials such as bone, restorable membrane, pericardium and others.

Our instruments are made from the finest stainless steel by skilled craftsmen and are subject to strict quality controls during the inspection process. Our instruments are guaranteed to be free from defects in workmanship and material. Any DoWell Dental Product instrument that proves defective will either be repaired or replaced at our discretion without charge.

The superior quality of our products did not happen overnight. It came about because of sheer enthusiasm coupled with years of experience and an unprecedented passion in dental instrument manufacturing.

Caring for the future of the dental industry is very important to us, and that is why we support many colleges and universities throughout the country with courses, lectures, continuing education courses and hands-on workshops. We also support key clinicians whose techniques and procedures are considered cutting edge and innovative in the dental field.

Here at DoWell Dental Products, we are also keeping up with the dental field by following new technology and techniques. The industry is always changing, and we are constantly changing along with it. Our goal is to specialize in manufacturing the highest quality dental instruments for our customers by employing excellent technicians and utilizing advanced production and equipment.

We offer an advanced website at www.dowelldentalproducts.com, where every item we carry is available to order. You can also find a variety of live surgery videos to see our products in action.

Our product line is always growing to cover new areas and procedures while some existing products are always being modified for superior use and ease.

Building customer relationships is the essence of our company’s success. At DoWell Dental Products, part of delivering great customer service and support is having knowledgeable representatives to help you with any questions you may have.
The MGUIDE System by MIS goes beyond the guided surgical procedure

By MIS staff

With the MGUIDE Guided Implantology System, only a single CBCT scan is required in order to start the planning immediately.

The stone model and diagnostic wax-up of the patient can be displayed digitally on the CBCT scan data within the implant planning software. This allows us to see the current soft-tissue contour, the future prosthesis plan, the patient’s bone volume, the implants and even the abutments. With this information, we can now create the ideal treatment plan.

In fact, by using the surgical template, we can create a model of the post-operative condition, complete with analogs, prior to the surgery.

By doing this, we can fabricate temporary components to be immediately loaded after implant placement, so the patient can go home having his or her teeth.

The surgical template is printed with the latest 3-D printing technology without any human intervention. It features a unique open design, which allows an optimal line of sight, as well as excellent irrigation. Within a few days, we can have the surgical template in your practice, ready for surgery.

Case planning

The latest CBCT scan data is used for case planning, allowing the location of the implant to be positioned with the precision of one tenth of a millimeter. This reduces the risk of error tremendously, and also the risk of damaging any proximal anatomical structures.

Because of the precise orientation, any bone replacement may be avoidable. In situations where bone grafting is unavoidable, then the primary fixation of the implant can be strengthened with correct placement in the existing bone. Clinical deci-

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**At AAID**

For more information on MGUIDE and other MIS offerings, please visit the MIS booth No. 501.

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**MGUIDE Implantology System. (Photos/Provided by MIS)**

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**DoWell Dental Products, Inc.**

Booth #415 & 417
Oct. 23 - 26, 2013 — Phoenix, AZ

Prices valid through 11-23-13

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Adoptions such as this can be thoroughly discussed during the treatment planning. Planning for implant placement with our system allows informed decisions to be made prior to the surgical procedure. This preparation helps ensure that the implant survival rate remains extremely high. By way of prosthetic-driven planning, actual surgery time can be reduced, and optimal implant placement results in simpler prosthetic work. Why? Because you can analyze the bone, the soft tissue and the proposed tooth placement during the planning stage. The ideal solution can be realized right from the beginning.

In overdenture cases, the axial positioning of the implants can be automatically made parallel. This allows better fixation of the prosthesis, resulting in better comfort and durability.

Surgery

Our newly designed MGUIDE Guided Surgical Kit and Tools Kit work seamlessly within our system. Unlike traditional guided surgical kits, our system has eliminated the need for guidance keys or spoons. The drills and sleeves work together to center and stop at the precise depth and positioning that was planned. Our innovative drills are sequenced according to our implant lengths, so sleeve heights are not required to be raised or lowered to achieve accurate depth. These features not only allow you to change implant lengths at the time of surgery, but also ensure that clearance is never a problem.

Raising the flap is not required, as tissue punches are provided to perform minimally-invasive procedures. This means minimal or no suturing, faster healing time and esthetically pleasing restorative results, all of which lead to greater patient and clinician satisfaction.

The MGUIDE System goes beyond the guided surgical procedure, providing you with tools specifically designed to place the implants through the template. This ensures that the actual treatment goes precisely as planned, from pilot drilling to placement.

What makes the MGUIDE so special?

We have created a system that simplifies the workflow for everyone involved. The clinician now has the ability to responsibly plan his or her case using all of the resources available. Bone quality, tissue height and prosthetic plan information aid us in treatment planning, taking most of the guesswork out of the surgical procedure.

We know going in what the final outcome should resemble, and from that knowledge, we create a precise and safe surgical plan that can be executed with the utmost ease. Our tools are designed to allow you the most comfort and control during the procedure, vastly shortening the actual surgery time.

This can allow greater patient satisfaction, minimal pain and the opportunity to treat more patients in one day. Shorter chair time equals more turnaround. Being able to conceptualize the treatment plan and present it to your patients allows you to keep them informed about what is going to happen. This increases their comfort and enables them to be on board.

Our system allows you to map out the road to success. The collaborative efforts of MCENTER USA, the clinician and his or her lab allows all avenues to be explored and agreed upon with precise knowledge.