

# Manufacturer News

## Straumann

### New Straumann® MembraGel™ for guided bone regeneration

Guided bone regeneration involves the use of a barrier membrane to help stabilize the bone graft and prevent unwanted growth of soft-tissue into the defect. Straumann MembraGel is designed to achieve undisturbed bone regeneration, which is a prerequisite for optimal clinical and esthetic outcome. Based on advanced polyethylene glycol (PEG) hydrogel technology, Straumann MembraGel is applied in liquid form and molds to the defect precisely. Within 20–50 seconds after application, the liquid components solidify, stabilizing the bone graft and providing an effective barrier to tissue infiltration.

Straumann MembraGel has completed preclinical and clinical trials including head-to-head compar-



isons with conventional materials. Further clinical data have been collected in an ongoing 'non-interventional' study and a multicenter clinical trial. Data from the clinical program include more than 40 centers in Europe and North America.

Throughout development, Straumann has worked closely with leading independent experts. The company is combining the launch with an education program that includes hands-on product training. Straumann MembraGel is being launched initially in key European markets, North America and Australia, where it has received regulatory approvals/clearances.

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## Implant Direct

### New European Training Center

Implant Direct, Europe's No. 1 Online Provider for Dental Implants, continues its expansion with a brand-new European Head Office in Zurich, Switzerland. On the 1<sup>st</sup> of September the team of Implant Direct Europe AG moved into the new European Headquarter at the Hardturmstrasse 161 in Zurich.

The fast growth of Implant Direct's sales required the expansion of the customer service department, a centralized European logistics department, and foremost, a state-of-the-art training center for workshops and hands-on trainings with customers.

2011 will start with trainings and hands-on workshops in which Implant Direct will welcome speakers and customers in their training rooms with a spectacular view over the Swiss mountains. The new training center offers modern presentation facilities and is the ideal signboard for a young ex-



panding and innovative company in the implantology like Implant Direct. The tremendous growth is the result of Implant Direct's effort in constantly improving and developing new products. One of the most recent examples, is the new one-piece locator implant "GoDirect" that has been patented. This world first product includes modern attributes and accomplishments of future implantology. The implant unifies all the advantages of a one-piece construction. "GoDirect" implant is available in

Ø 3.0, 3.7 and 4.7 mm and the prosthetic part of the locator in 1.5 and 3.0 mm height. Furthermore it is prosthetical compatible with the system of Zest Anchor™.

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## BEGO Implant Systems

### Competitively priced alternative for occlusal screw-retained crown and bridge solutions

The implant company BEGO Implant Systems, based in Bremen, Germany, offers its customers a competitively priced alternative to tried and tested gold cast-on abutments. Expensive high-gold alloys are not required and, instead, less costly non-precious alloys can be used. The patented Sub-Tec Universal abutment (available with and without anti-rotation protection) enables the practitioner to secure the superstructure, produced from all available dental alloys, intraorally with either a primary or occlusal screw fixation. The resulting oxide layers which form on non-precious alloys when casting or with ceramic firing and which have to be removed by machine do not affect the subsequent fit between the implant and the Sub-Tec Universal abutment. The dental technician completes the work as usual and adheres the Universal base produced from a titanium alloy to the custom-made structure. The seat of the screw is found in the cast part. Another benefit worthy of mention is the fact that the challenging



# BEGO

Partners in Progress

removal of residual cement is no longer necessary. In contrast to cemented restorations where the subgingival removal of residual cement is essential, with these screw-retained designs this is not the case and, as such, the periimplant soft tissue is protected. As with all other BEGO superstructure components, these high-quality abutments come with two screws. The slotted screw is for dental processing in the laboratory, whilst the separately packaged hexagon socket screw is used for final placement of the restoration in the patient's mouth. "This ensures that a new screw is used for every single patient and, in turn, that he or she is completely satisfied with the implant in the long term", explained Christoph Staufenbiel, Product Manager at BEGO Implant Systems.

#### BEGO Implant Systems GmbH & Co. KG

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## EMS

### Piezon Master Surgery with three new instrument systems

Since it was introduced, Piezon Master Surgery—based on Piezon technology—has had a remarkable track record in many practices. Today, EMS has expanded the clinical scope of application of the Piezon Master Surgery product range. With an enhanced product offering—and special instruments such as Sinus System and Implant System—practitioners have access to technologies allowing them to work even more efficiently. With Piezon Master Surgery, additional application-specific instruments are now available: a total of four perio instruments especially



designed for resective and regenerative periodontal surgery, five advanced surgical instruments for gentle and uniform sinus lifts, as well as six special fully diamondcoated instruments for implant applications with dual cooling system and extraefficient debris evacuation.

These instruments are seen as particularly suitable for four clinical applications: implant site preparation following extraction, implant site preparation following splitting of the alveolar ridge, implant site preparation in the posterior tooth area, and implant site preparation in compromised areas, such as a narrow alveolar ridge. In principle, instruments can be used at low OP temperature of no more than 33 degrees centigrade. They provide drilling efficiency and precision in the maxillary area.

#### EMS

#### Electro Medical Systems S.A.

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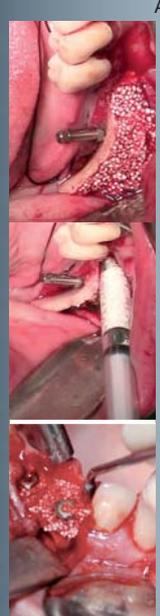
### easy-graft<sup>®</sup> CRYSTAL

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Nobel Biocare

**Excellent initial stability and perfect aesthetic results**

With its latest product NobelActive™ the Swiss company Nobel Biocare has created a 3<sup>rd</sup> generation dental implant. This innovative implant was developed to efficiently meet the high demands of dental implant surgery and implant prosthetics. Its positive effect of high initial stability is of benefit to immediate loading after insertion, setting NobelActive clearly apart from conventional implant systems.

With its novel thread design, NobelActive™ condenses the bone during insertion. The innovative implant design allows gradual and efficient bone condensing with each rotation. This benefit clearly differentiates NobelActive™ from other conventional, self-tapping implants available on the market. Further the expanding, tapered implant body of NobelActive™ features a double lead thread design, which also contributes to the high initial stability.



And the newly designed implant tip allows fine adjustments to implant orientation during insertion to optimise the final position of the implant in the bone, without jeopardising initial stability. The implant thread allows gradual atraumatic narrow ridge expansion and was developed to attain high initial stability even in compromised bone situations. Furthermore, NobelActive™ is provided with two reverse-cutting flutes. The coronal region of NobelActive™ is back-tapered and designed to maximize alveolar bone volume around implant collar for improved soft tissue support. These new attributes are very important advantages for the subsequent prosthetic management, in addition to ultimately facilitating the co-operation between surgical and prosthetic management.

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Degradable Solutions

**Moldable, in situ hardening bone graft substitutes**

easy-graft™ CLASSIC and easy-graft™ CRYSTAL are moldable, fully synthetic bone defect fillers for indications in oral surgery, implantology and periodontology. In contact with blood, the materials harden within minutes into a porous, inherently stable body. A membrane to contain the materials is not necessary in most cases. The easy-graft™ products are frequently used for ridge preservation after tooth extraction. The socket must be free of infected and inflamed tissue prior to graft insertion. The materials are applied directly from the syringe into the defect where they harden and seal the extraction wound. For most cases, a membrane or suturing of soft tissue are unnecessary. easy-graft™ CLASSIC and CRYSTAL are designed



to have different resorption characteristics. easy-graft™ CLASSIC is composed of phase-pure  $\beta$ -tricalcium phosphate ( $\beta$ -TCP). It degrades completely and is replaced by bone. easy-graft™ CRYSTAL contains 40%  $\beta$ -TCP and 60% hydroxyapatite (HA). It is degraded only partially and remains integrated in the newly formed bone for long-term volume preservation. In summary easy-graft™ combines established biomaterials for

bone regeneration with a unique handling advantage – moldable from the syringe, hardening in the defect.

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CAMLOG

**Prosthetic components for occlusally screw-retained restorations**

With the introduction of the new Vario SR prosthetic components, users are now able to choose between cement-retained or screw-retained crown and bridge restorations on CAMLOG® implants. Vario SR abutments are available in straight and in 20° and 30° angled versions for implant diameters 3.8/4.3/ 5.0/6.0 mm.



**Prefabricated Vario SR prosthetic components**

Burn-out plastic copings can be used to fabricate crown, bridge and bar constructions. The titanium caps have a retention surface on the outside and are designed for temporary or final bridge restorations made of plastic. Titanium bar caps are available for laser-welded bar constructions.

For bridge and bar constructions, the impression can be taken using Vario SR impression

caps, open or closed tray, directly over the Vario SR abutment already in its final position in the implant. The retention screw of the impression cap, open tray, can be shortened by 3 mm extra-orally if space limitations are encountered.

For crown restoration, the impression can be taken directly over the implant shoulder using CAMLOG® impression posts, open or closed tray.

**CAMLOG Biotechnologies AG**

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