Robotic guidance system could be game changer for implant dentistry

Implant dentistry is about to make a leap in development, at least if things go the way US company Neocis predicts. After introducing YOMI, the first robotic system developed for dental implant placement, and receiving Food and Drug Administration (FDA) 510(k) clearance to market its pioneering surgical assistance system, the company has now announced the completion of the first sale of its device.

The dental implant and prosthetic market is one of the fastest-growing markets in the US. Equally thriving is the surgical robotics market, which is estimated to reach $20 billion across several medical markets by 2021. Combining both medical fields is YOMI, which is intended to provide assistance in both the planning (pre operative) and the surgical (intraoperative) phases of dental implant surgery.

Commenting on receiving FDA clearance in March, Neocis CEO and co-founder Dr Alon Mozes said, “We are excited to achieve this important milestone for YOMI. We look forward to further demonstrating the benefits of YOMI to the surgeon’s practice and their patients and to bringing the system to select key opinion leaders in the United States.”

According to Neocis, YOMI is engineered to eliminate dentists’ dependence on plastic drill guides, which can impede the site of surgery and block proper irrigation and visibility. The computerised navigational system delivers physical guidance through the use of haptic robotic technology, which provides sensory feedback and constrains the drill in position, orientation and depth. Notwithstanding its digital guidance, the surgeon remains in control and can dynamically change the plan during the procedure, the company emphasised.

Neocis further noted that it is committed to ensuring that dentists who choose to use YOMI in their practice undergo sufficient training on the use of the software and the workflow of the system.

The first clinic to use YOMI in daily practice will be the South Florida Center for Periodontics & Implant Dentistry in Boca Raton, Florida, Neocis stated in a press release. The system has been installed, and Drs Jeffrey Ganeles, Frederic Norkin and Liliana Aranguren have completed training.

“We are excited to incorporate YOMI into our practice,” Ganeles stated. “Adopting state-of-the-art technology is part of our commitment to providing the very best care for our patients. YOMI ensures that the procedure goes precisely as planned. There is nothing else like it, and I believe it will be a game changer for our practice.”

By DTI

more accurate restoration planning

MIS launched new digital model analog

MIS Implants Technologies has revealed its new fully digital solution from “scan to crown”.

With the release of the new digital analog for a 3-D printed model, the digital process is now complete. The analog may be used together with intraoral scanning as part of a seamless digital process. The new model analog was designed with a geometry which provides optimal precision and ensures exact positioning in a 3-D printed model.

This ensures a most accurate restoration planning and simulation. This efficient solution also removes inaccuracies in the process of traditional impressions and stone models.

The MIS digital analog has been integrated in the 3Shape and exocad libraries for convenience and ease of use.

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MIS releases new EZ-Base abutment

MIS Implants Technologies has announced the release of a new Ti-Base abutment that offers a solution for anterior screw-retained restorations. According to the implant manufacturer, restoration placement has never been simpler than with the EZ-Base system. The new abutment is designed for extreme angulation and offers safe handling within its screw channel. In addition, more angle options allow for greater comfort for the clinician performing anterior and posterior restorations with convenient handling and placement.

“It’s critical to keep our R & D in direct correlation with the market’s needs,” commented Dr Shelly Akazany, Implants Product Manager at MIS, on the launch. “Both screw-retained solutions and CAD/CAM technologies are in accelerated growth. The EZ-Base belongs to both worlds.”

The EZ-Base screwdriver features a unique tip that allows safe and reliable access from multiple angles, as well as gripping, tightening and loosening within the angulated screw channel with the convenience and at a torque similar to that of a straight screw channel.

According to the company, the system provides an entire range of possibilities for prosthetic restorations in the aesthetic zone. Whereas screw-retained restorations may not have been an option for many anterior cases in the past, the EZ-Base system now provides a solution. It may be used in a digitally planned procedure incorporating CAD/CAM technologies or using conventional methods.

Akazany explained: “It’s important for us, in the Products Division, to offer a broad range of prosthetic options in order to make the clinician’s life simpler, by having the most appropriate solution for each specific case without having to compromise. The EZ-Base system enables more freedom of choice and the ability to perform screw-retained restorations in cases that would have been previously ruled out.”

The EZ-Base system is available for narrow, standard and wide platforms and in both conical and internal hex connections. EZ-Base is also offered in both fixed gingival heights and adjustable options for optimal customisation and convenience.

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Predictable quality and fast results with the new NobelProcera Implant Bridge

Nobel Biocare, swiss based implants and prosthetic solutions manufacturer, has announced that the precision-milled NobelProcera Implant Bridge in high-translucency multilayered zirconia represents the latest in restorative innovation from the company.

With the angulated screw channel (ASC) innovation and completely cement-free adapters, the NobelProcera Implant Bridge offers a fast, predictable and cost-efficient solution for both dental laboratory and clinic.

The ASC option, combined with the pick-up functionality of the unique Omnigrip tooling, revolutionises screw-retained restorations. It makes it possible to reposition the screw access hole in cases where it would otherwise be on the facial or incisal edge, or when occlusal space is limited, while also improving retrievability and reducing the risk of residual cement.

The benefits of ASC are possible thanks to the associated Omnigrip tooling—an innovation from Nobel Biocare’s product development team. The unique tip of the Omnigrip Screwdriver allows the screw to be tightened and loosened within the angulated channel with easy accessibility, as well as easy handling from multiple angles, even in the posterior.

The pick-up ability of the special tip is also an outstanding feature. The Omnigrip Screwdriver delivers a strong hold for full insertion torque—even at an angle—to offer convenience and, most importantly, safety. The Omnigrip is designed to hold the screw firmly when it matters most—when the clinician is working in the patient’s mouth.

The recent NobelProcera launches do not stop there, with precision-milled bridges in the same high-translucency multilayered full-contour zirconia now available. Following the recent introduction of the NobelProcera Crown in the same material, these products harmonise the NobelProcera offering. Each solution in the range efficiently combines high-strength with aesthetics and a time-saving workflow. Thanks to the full-contour nature and excellent occlusal detail, the dental technician need only apply subtle staining, if desired, before polishing and glazing.

www.nobelbiocare.com