

Hager & Meisinger introduces the new MEISINGER DIGITAL service

Surgery Guides for Safe and Precise Bone Management®

Neuss, March 2023 - With the new MEISINGER DIGITAL service, Hager & Meisinger combines the benefits of digital dentistry with its proven Bone Management® portfolio. To simplify things even more, using its surgical systems, the medical technology company from Neuss has developed surgical templates that offer the user even more safety and precision during oral surgery procedures.

The Bone Management® portfolio from Hager & Meisinger includes a wide range of surgical systems designed to safely augment the bone implant site. The perfectly matched systems provide the user with the right instrument compilation for specific surgical techniques, offering more effective and precise work and more predictable results.

With the new MEISINGER DIGITAL service, Hager & Meisinger combines the possibilities of digital dentistry with the proven Bone Management® portfolio. For much improved handling, the Neuss-based dental company has developed Surgery Guides (surgical templates) that offer the user more safety when implementing Bone Management® techniques. With the guides individually created for each patient situation, both patient and practitioner benefit from a very precise and safe procedure and significantly more aesthetic results.

Guided augmentation with autologous drill core bone

For exposed implant necks, bone augmentation with the patient's own bone is still considered the gold standard. The carrot technique according to Prof. Dr. Fouad Khoury allows stable drill core bone to be taken directly from the implant bed and transplanted. The bone material required for the augmentation is thus used efficiently and a second removal site is not necessary. Furthermore, the user can do away with the more time-consuming pilot drilling.

For the optimal implementation of the carrot technique, Hager & Meisinger has developed the Trepine Ejection Kit together with Prof. Khoury. The internally cooled two-part trephines included in the kit allow precise and safe removal of the bone carrot. The Surgery Guide, which developed specially for this technique, also allows an even safer implementation of the carrot technique. The drilling template allows the position and axis of the trepan hole to be determined precisely. The gain in anatomical information determined by 3D data also makes it possible to precisely determine the optimal drilling depth. To comply with this, Hager & Meisinger has also developed stop sleeves which, together with a surgery guide, ensure an automatic depth stop during trepan drilling.

Bone splitting and bone spreading

Crest-Control is a proven system for gentle spreading of the alveolar ridge in horizontal bone deficits. In order to optimally prepare the bone for implant insertion, the system includes horizontal spreaders with which the alveolar ridge is widened easily, quickly and in a controlled manner by up to 5 mm so that an implant can subsequently be placed in the widened segment. With the Split-Control-System, the user also has a range of different helical spreaders at his disposal, with which horizontally resorbed bone can be controlled and gently expanded (bone spreading). Due to their special geometry, cancellous

bone is also compacted (bone condensing), which increases the primary stability of the inserted implants.

The splitting of the alveolar ridge with a cutting disc, which is necessary for both techniques, can also be done with the aid of a surgery guide. Especially when there is little bone available, the guided approach allows the incision to be made precisely. Excessively long or incorrectly positioned cuts are thus avoided. Furthermore, thanks to digital planning, it is possible to take into account the future implant position during the incision.

Surgery Guides for the entire Bone Management® portfolio

As with the carrot technique and also the bone splitting and bone spreading, digital planning can provide support for any augmentation procedure. For example, a trephine from the Trephine Ejection Kit can also be used to perform a controlled apicoectomy, in which the position and depth of the tooth root can be precisely defined in advance using a customised drilling template. The anatomical conditions can also be precisely determined during a sinus lift so that, for example, the risk of damaging the Schneiderian membrane can be reduced. The guided procedure offers more control and safety during the procedure, especially for less experienced practitioners.

Visuals:



Figure 1: The MEISINGER DIGITAL team (from left): Paul Delee (CAD/CAM Consultant), Sebastian Voss (Managing Director of Hager & Meisinger GmbH), Tim Drücke (Dental Technician), Sebastian Bolling (Head of MEISINGER DIGITAL), Frank Brüggen (Global Digital Manager MEISINGER DIGITAL).



Figure 2: For even better handling of the surgical systems from the Bone Management® range of products, MEISINGER offers surgical guides that simplify the implementation of augmentation procedures even more.

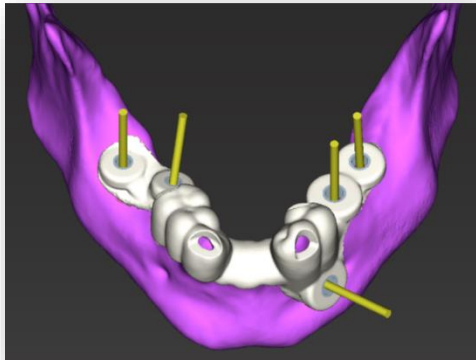


Figure 3: Drilling template for guided trephination.



Figure 4: Drilling template for the spread control system.

Source of visuals: Hager & Meisinger GmbH

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