

From all over the world to the Allgäu zebris Medical Symposium focuses on digital workflow integration

The international zebris Medical symposium took place under the guiding theme of the efficient integration of digital workflows in dental practices. High-profile personalities from the dental industry presented groundbreaking content and offered the 130 participants and over 100 online viewers at Center Parcs Leutkirch in the Allgäu region an exclusive platform for discussions and live demonstrations of the JMA Optic jaw registration system, which was the focus of the event. In late summer temperatures, visitors experienced the latest developments and innovations in digital-based functional diagnostics and discussed with colleagues, dentists and experts from all over the world.

Just do it



Dr. Ingo Baresel from Cadolzheim (President of the DGDOA) is an expert in the field of "digital impressions" and stated: "Digital impressions and the associated digital workflow have made me a better dentist." During his lecture, he discussed the results and advantages of various scanning systems and emphasized the growing importance of intraoral scanning in implantology, "as a suitable digital workflow is available for every implant system." Dr. Baresel also integrates digital functional recording into his scanning

concept and achieves outstanding results, especially in splint therapy. His take-home message: "Just do it - digital impressions are not the future, they are the present."

New JMA Optic 3.0 software



When zebris Managing Director Wolfgang Brunner took to the stage, cell phones were pulled out as he presented the brand new software update 3.0, the outstanding innovation of the JMA Optic System, which enables the digital matching of intraoral scan data (.stl, .ply and .obj) and zebris data immediately. "This is occlusion in real time," said Wolfgang Brunner. The matched data is then transferred to external CAD systems (exocad) for design. Also new are the new C-positioner and the alignment fork for transfer to the mechanical articulator. This results in an even more efficient, faster and simpler process for users.



Occlusal Interface

Prof. Dr. Alfons Hugger, together with Prof. Dr. Bernd Kordaß, demonstrated current possibilities and future developments in digital occlusion: "In terms of dynamic biological relationships between the components of the masticatory system, occlusion is the interface that determines tooth contact in function and dysfunction."

According to Prof. Hugger, today it has a far greater dimension than the mere consideration of occlusal points and their distribution or position on the occlusal surface. Prof. Dr.

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Bernd Kordaß presented the pilot study on the clinical applicability of digital dental occlusion analysis. The results on the number of occlusal contacts clearly show a match between the clinical method and the intraoral scan method. This applies to both the maxilla and the mandible. These results can be found in the JMA software module "Occlusion analysis according to Prof. Kordaß", which can be used to convert the functional occlusion into a splint design.

Therapy for sleep apnea patients with a special splint



The presentation by Prof. Dr. Axel Bumann (Berlin) focused on a self-developed cloud-based app as a further development of the classic medical history form for patients. It is used to identify interference fields in order to diagnose oral sleep apnea (OSA) based on AI. The apnoea splint developed by Prof. Dr. Axel Bumann is functionally optimally adjusted and is based on his MSA and digitally based jaw registration. The splint for apnea patients is planned and designed using the Ortho Apnea Viewer software. The

customized splint helps patients to sleep peacefully and healthily without additional aids such as apnoea masks.

From smile design to final rehabilitation



According to the study "Increasing the Vertical Dimension of Occlusion" by Prof. Dr. Alessandro Nanussi, Milan, it is possible to increase the vertical dimension by around two millimetres in most patients. In most cases, this occurs without symptoms during a therapy period of around two months to adapt to the new situation. He presented his wife Claudia as a patient case: After preventive and careful planning, the restoration was planned based on the digital impression and jaw registration with a customized

printed tray. First with a splint therapy, then with a mock-up based on Smile Design, which was transferred to the final restoration. His wife was present in the audience and showed off her "designed smile" with a winning smile.

CMD Fact



Dr. Oliver Ahlers presented CMD Fact, a software-supported tool for CMD assessment, via video link. The scientific basis for the short CMD findings is a controlled clinical study at the UKE, Hamburg, with 100 anamnestically "sick" and 100 "healthy" patients. With the software solution developed by him and Prof. Dr. Holger Jakstat, systematic CMD screening can be easily and scientifically implemented on this basis for manifest complaints.

The "CMD Fact Interactor" module in the zebris JMT function pro software is coordinated with the CMDtrace functional software and supports dentists in the systematic assessment of findings. All data is matched in the zebris software and planned and fabricated in collaboration with the dental laboratory so that the CMD patient can smile again without discomfort.

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Centric condyle position



PD Dr. Daniel Hellmann (Director ZA-Karlsruhe) began his lecture on Saturday morning with a consideration of the centric condylar position, because "these discussions and developments are reflected in the various definitions of the condylar position in centric condylar position", which has changed over time from a "posterior" to an "upper and anterior" position of the condyles in their fossae." These different definitions for the centric condylar position have led to the establishment of a variety of techniques for determining the jaw relation, the application of which promises an "optimal" positioning of the mandible. Against the background of the current study situation, PD Dr. Daniel Hellmann pointed out that there is "no gold standard for jaw relation determination", but that the focus should be on not unnecessarily challenging the patient's ability to adapt.

Practical concept on the stage



The live demonstration by the trio of OA Dr. Ulrich Wegmann (Remagen), Christoph Kleemann (itero) and Benedikt Zillmer (zebris) was a practical experience. A patient situation in the dental practice was simulated on stage and simple data acquisition with intraoral scanning and digital-based jaw registration was presented. The new alignment fork with two bite surfaces was used. This was followed by the planning and implementation situation in the "Splint Management" software module, in which the therapeutic position for the splint was determined taking into account the previous diagnostics. All in all, a very efficient workflow in the dental practice involving all parties: dentist, patient and dental technician.

Hybrid process total prosthetics



Dr. Ulrich Wegmann then discussed the workflow for complete dentures. The JMA Optic system is also used here, but Dr. Wegmann recommends a hybrid process. This means that analog processes carried out up to now are also retained in the digital workflow: Anatomical impression with individual impression tray, the functional impression as well as the alignment of the wax wall. Only then does the digital workflow start with the digital facebow transfer, scan of the functional impression and CAD design in the

dental laboratory.

Exocad Rijeka 3.1



Marco Annucci (exocad) presented a digital sensation: The integration of the new zebris JMT function Pro 3.0 into the new release exocad Rijeka 3.1. With one click, the data is transferred from the zebris software to the exocad software, and all with a single creation process of the patient data instead of 2 times previously. These innovations bring greater efficiency to the dental practice and dental laboratory.

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Functioning digital workflow



There is no longer a standard splint order for dental technician Fabian Völker (Marburg), because "patients deserve individualized treatment tailored to them with both splints and mock-ups through to the final restoration." Fabian Völker used a patient case to show how the data from the zebris software goes hand in hand with the exocad data: an anxious patient for whom the dental treatment and prosthetic implementation had to go hand in hand and be well planned with as few visits to the dentist as possible in short

treatment time windows. The concept works with purely digital planning of the restoration, which was implemented step by step in the digital workflow in the dental laboratory. And in the end, the patient smiled at the audience with a radiant smile and visible teeth.

Optimization for aligner treatment



As part of the set-up design process for aligners, Dr. Marc Geserick (LL.M., Ulm) uses the specialized planning software smyl:code via the Onyx Aligner 3D interface. The precise three-dimensional alignment enables the target occlusion previously determined with the zebris software and thus offers dental technicians an efficient navigation system in the sagittal and transversal plane. And in the end, everyone benefits from the time-saving production of aligners with improved communication and control between dentists and

dental technicians.

Conclusion: A scientifically sound symposium on digital functional diagnostics with an international audience, for which the trip to the Allgäu was more than worthwhile. During the two-day symposium, participants had the opportunity to test the innovations presented live at any time in the adjoining industry exhibition. The event thus provided a comprehensive theoretical and practical insight into the use of state-of-the-art digital aids in both dental practices and dental laboratories.



Speakers:

Prof. Dr. Alessandro Nanussi, Milan (President AIGeDO), Dr. Ingo Baresel, Cadolzburg (President DGDOA), Prof. Dr. Axel Bumann, OA Dr. Ulrich Wegmann, Remagen, ZT Fabian Völker, Marburg, Prof. Dr. Alfons Hugger, Düsseldorf (President DGFDT), Prof. Dr. Bernd Kordaß, Greifswald (Vice President

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DGCZ), Wolfgang Brunner (zebris Managing Director) and Application Specialist ZT Marco Annucci, Rome. Not in the picture: PD Dr. Daniel Hellmann, Marco Annucci, Fabian Völker and Dr. Marc Geserick.



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