

A well- conceived, completely digital workflow for the treatment of obstructive sleep apnea

The combination of 3D imaging, digital impressions and the SICAT Air software enables a unique treatment process for patients with mild to moderate obstructive sleep apnea (OSA). The workflow is completely digital and leads directly to a mandibular advancement splint that significantly improves breathing and daytime sleepiness. At the IDS 2017, Dentsply Sirona is demonstrating how the technologies dovetail - for safer and faster treatment.

Bensheim/Salzburg, March 21, 2017. SICAT Air is the first 3D solution that enables analysis of the upper airways in 3D volume and illustrates the workflow of a splint-based treatment completely digitally. With this software, dental practitioners can quickly and easily order mandibular advancement splints that reduce or alleviate the symptoms of mild to moderate OSA.

Coordinated processes boost trust and confidence

Ensuring the safety of the treatment begins during the preparation. The three-point head fixation device and the patented occlusal bite block of the Orthophos SL support the ideal and safe positioning of the patient during the creation of the 3D images. These 3D images for the analysis of the airways and planning of the splint treatment can be created with a significantly reduced dose as low as 9µSv thanks to Low Dose. In combination with the SICAT Air software, the user is able to carry out automatic segmenting of the airways so that they receive a precise insight into the anatomy of the upper airways and an exact overview of the constrictions that are present. All of the airway parameters, even the smallest cross-sections for example, and the volume of the airways are displayed. In addition, the comparison of the airways in the software allows the dentist to directly compare two segmented 3D images that show the airway situation in the normal condition and that achieved in the therapy position. The 3D Low Dose scan and the variety of methods of presentation offered by SICAT Air aid patient consultations and acceptance of the suggested treatment.

A subsequent optical impression captured with the CEREC Omnicam contributes to the exact data on the situation of the tooth and the mouth. After combining the data in the software to create an overall picture, the treatment splints can be ordered digitally via the software. SICAT creates the OPTISLEEP treatment splint in Bonn, Germany, completely digitally with the help of the planning data.

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About Dentsply Sirona:

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies, with a 130-year history of innovation and service to the dental industry and patients worldwide. Dentsply Sirona develops, manufactures and markets comprehensive solutions, products for dental and oral health, and medical supplies that are part of a strong brand portfolio. As The Dental Solutions Company, Dentsply Sirona supplies innovative, effective, high-quality solutions to improve patient care and ensure better, faster, and safer dentistry. Dentsply Sirona's global headquarters is located in York, Pennsylvania, and the international headquarters is based in Salzburg, Austria. The company's shares are listed on the NASDAQ under the symbol XRAY. Visit www.dentsplysirona.com for more information about Dentsply Sirona and its products.

An impressive product range for the IDS 2017

Alongside the analysis of the upper airways and the treatment with a mandibular advancement splint, Dentsply Sirona also serves other indication areas with SICAT. The dentist is assisted when treating patients with implants by the *Optiguide* surgical guide. The surgical guide can be ordered from the Galileos Implant planning software by using a combination of the data from the 3D X-ray image and the data from the digital impression.

"Like no other company, Dentsply Sirona has combined individual applications to create a completely thought out digital workflow," said Group Vice President for Germany, the Benelux countries and Scandinavia at Dentsply Sirona Marcus Böhringer. "That creates efficient processes in the practices and provides more comfort for patients."

At the IDS 2017 in halls 10.2 and 11.2, Dentsply Sirona is demonstrating the impressive interplay of the components from CAD/CAM Imaging and SICAT - for better, faster and safer dentistry.

Due to various certification and registration periods, not all products are immediately available in all countries..

Dentsply Sirona at the IDS:

Halls 10.2 & 11.2



IMAGES



Fig. 1: OPTISLEEP – enhanced comfort for patients thanks to the slender design

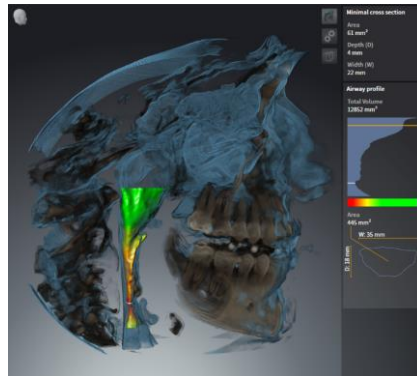


Fig. 2: This screenshot shows the automatic segmenting of the airways, the precise insight into the anatomy of the upper airways and enables an exact overview of the constrictions that are present.



Fig. 3: The airways can be compared visually in the SICAT Air software (compare mode).



Fig. 4: Mandibular advancement splints are a suitable solution to reduce or alleviate the symptoms of mild to moderate obstructive sleep apnea. The wearing comfort ensures a high level of patient compliance.



Fig. 5: 3D images for the analysis of the airways and planning of the splint treatment can be created with the Orthophos SL.

