

Award for clinical studies – The success and efficiency of CEREC Guide 2 has been confirmed

A study on the preciseness of the CEREC Guide 2 drilling template was honored at the World Summit Tour of Dentsply Sirona in Nice: Dr. Katariina and Dr. Marko Ahonen from Finland won the main prize in the category "Clinical Application" with their poster. The scientific committee acknowledged their achievement demonstrating the practicability and cost-effectiveness of guided surgery in implantology using CEREC Guide 2 – a product from Dentsply Sirona.

Bensheim/Salzburg, August 22, 2017. At the World Summit Tour of Dentsply Sirona Implants in Nice, numerous participants took the opportunity to present their research and clinical application results in implantology in the form of posters. A scientific committee that included Drs. Michael Norton, Anne Benhamou, Stefan Hassfeld, Denis Cecchinato, Hugo De Bruyn, and Peter Gehrke evaluated a total of 43 submissions for the two categories "Research" and "Clinical Application." The prize for each category was 1,500 euros.

Safe implementation of planning with guided surgery

The winners in the category "Clinical Application" were Drs. Katariina and Marko Ahonen (Institute of Dentistry, University of Eastern Finland, Kuopio) with their practical study "Accuracy of cost efficient tooth supported chairside implant guide: CEREC Guide 2.0"¹. In this study, they evaluated 73 consecutive implant cases and showed that the complete digital workflow using CEREC Guide 2 drilling templates produced directly in the practice was a cost-efficient method for guided implant insertion. Using the drilling templates, the implementation of surgical planning could be achieved more precisely, which in turn had a positive effect on the long-term success of the implant and on the esthetics of the overall treatment including the superstructure. In detail, the dental practitioners, who work in a practice clinic found that:

- Implants placed with CEREC Guide 2 demonstrated a smaller deviation from the digitally planned position in comparison to a study by Schneider². This study also included non mature bone situations (10 immediate, 11 early implantations and 3

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ABOUT DENTSPLY SIRONA:

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¹ Ahonen K, M; Accuracy of cost efficient tooth supported chairside implant guide: CEREC Guide 2.0"

² Schneider D et al. A systematic review on the accuracy and the clinical outcome of computer-guided template-based implant dentistry. Clin Oral Implants Res. 2009 20 Suppl 4:73-86

implantations with lateral sinus lifts). The results are still more accurate than in a study by Schneider.

- Generalists were able to place the implant more precisely using CEREC Guide 2 than experienced surgeons did freehand (compared with the digitally planned position) in a study by Vermeulen³
- Templates without a lateral opening were statistically more precise (all dimensions except insertion depth). However, the lateral opening, an option with CEREC Guide 2, provides the option of template-guided work even in implant positions that are difficult to access.

Around 30 minutes were required from the digital impression to planning to designing the drilling template. The manufacturing itself also took about 30 minutes. Both general dental practitioners concluded from their results that the use of CEREC Guide 2 represents a clinically successful and also cost-effective method for a wide range of clinical situations including immediate implants. The overall results of the study will be published shortly.

The poster competition will take place at all four locations of the World Summit Tour. In a global competition, Jan Lindhe, Professor em. of the University of Gothenburg and Marc Quirynen, Professor at the Faculty of Medicine (Periodontology Department) at the University of Leuven, will select the final winners in each category from the winners of each of the Tour locations.

Perform implants safely, quickly, and reliably with CEREC Guide 2

Produced simply and quickly in-house – that is CEREC Guide 2. These drilling templates can be manufactured on the basis of an optical impression and a 3D X-ray image extremely quickly and cost-effectively directly in the practice with the CEREC grinding and milling unit. "The drilling template has been demonstrated to provide a higher level of precision than freehand insertion and provides the implantologist with more safety overall," explained Dr. Frank Thiel, Group Vice President CAD/CAM at Dentsply Sirona. "And that is not only for the surgical procedure itself, but also for the exact implementation of the planned prosthetic situation."

³ Vermeulen J. The Accuracy of Implant Placement by Experienced Surgeons: Guided vs. Freehand Approach in a Simulated Plastic Model. Int J Oral Maxillofac Implants. 2017 617-624

IMAGES

are available for [> download](#) on the website.

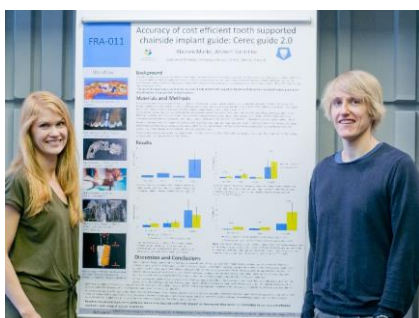


Fig. 1: Drs. Katariina and Marko Ahonen from Finland won the prize in the category "Clinical Applications" with their poster at the World Summit Tour of Dentsply Sirona in Nice.

