

ClaroNav introduces new device for navigated surgery

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ClaroNav is dedicated to the development of surgical navigation solutions. At current IDS, ClaroNav introduced its new device Navident, which is an affordable and practical dynamic navigator for dental surgeons. Timo Krause spoke to Tom Tilmans, Director of Sales & Marketing EMEA, about the new developments.

_Timo Krause: Navident promises a completely new approach of image-guided implant navigation. What was the initial idea for the development?

Tom Tilmans: The inclusion of the CBCT scan as part of the standard of care for dental implant planning and placement has been of great benefit to the surgeon, the restorative dentist and of course to the patients. A logical next step would seem to be dynamic surgical navigation utilising that CBCT scan as a map.

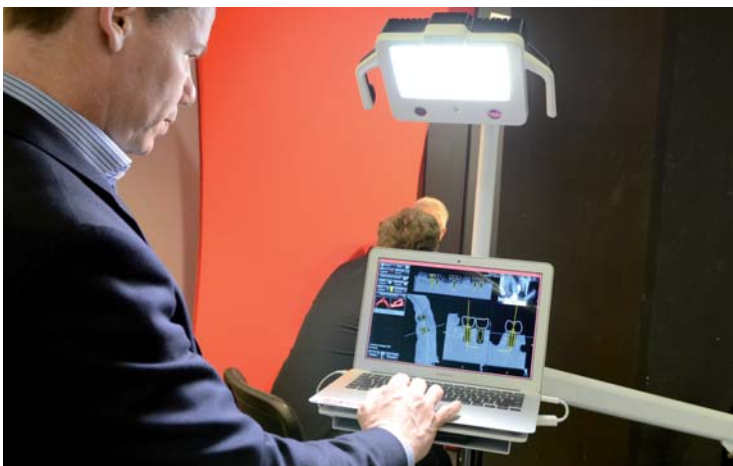
Dynamic navigation combines the advantages of performing highly accurate and minimally invasive surgery with the flexibility to make changes to the digital plan at any time during that surgery. Independent of any implant specific surgical kit, dynamic navigation offers the promise of a simple workflow, easily adapted to the freehand surgical techniques currently employed.

Dynamic navigation systems have been successfully tested since the early 2000s, and proven to provide these benefits in numerous papers. They have not gained widespread use, however, mainly due to their high purchase price and to usage difficulties caused by their immature design. Navident is different. It is affordable, practical and robust.

_What are the advantages of using Navident?

Using the CBCT image as a map, Navident guides surgeons just like a GPS guides drivers. The dental surgeon plans where implants should be placed. Navident, dynamically tracking the drill and the patient's jaw, provides guidance and visual feedback to ensure the implants are placed according to plan. This provides a range of benefits:

- Reduces errors. With Navident, implants are typically placed 3 times more accurately than freehand.
- Enables flapless drilling, which reduces chair-time, patient trauma, pain, and recovery time.
- Increases surgeon's confidence and maximises flexibility.
- The plan can be modified at any time, even during operation.
- The device attracts patients by providing a clear and visible competitive advantage.



Navident is designed to simplify the implant dentistry workflow and provides accurate guidance more effectively than rival solutions, including static guides. A single one-hour appointment may be sufficient, in uncomplicated cases, for a complete Navident-guided procedure, including NaviStent fitting, scanning (on site), planning, flapless guided drilling and implants insertion.

How long does it take to get familiar with the use of the system? Is a special training necessary/required?

For optimal patient outcome, we provide our customers the detailed knowledge required to become competent at using Navident.

The Navident workflow exists of four easy steps. Before getting started, people get an overview from patient diagnosis to navigated implant treatment, including hands-on drilling. We aim to be very practically oriented and focus on each step in the workflow.

You have introduced the Navident system to a worldwide audience at recent IDS 2015 in Cologne. Were you satisfied with the traffic and interest at your booth?

The IDS is a great place for companies as ClaroNav to demonstrate its innovative power. People showed great interest in new technology and we received a high number of particularly qualified trade visitors. We experienced a high level of internationality and decision-making competence. This proves the growing interest in dynamic navigation and its benefits.

Let's have an outlook into the future: Which trends do you see in the field of implantology?

The overall demand for implantology is projected to increase by 10 per cent for the next years, due to lifestyle influences and higher life expectancy. To handle the growing number of patients, clinicians need a solution that increases operational efficiency in their practice or hospital, which supports team collaboration and improves patient care.

Referring to implant navigation, the use of surgical templates often only complicates the workflow because it increases the complexity and the duration of the implantation procedure. Clinicians end up investing in expensive technology and not integrating it completely because of problems in work-



Tom Tilmans, Director of Sales & Marketing EMEA.

flow and accuracy or because of clinical issues.

Looking back at the IDS, it's unbelievable so many different vendors are offering so many different products for treating just one small part of the human body. The industry is dynamic, and successful innovations addressing the clinicians' needs have the potential to become standard of care. Navident is designed for clinicians who want the most accurate and reliable technology, and achieving time and cost savings at the same time. This is why

Navident will change your perspective on progressive dentistry.

ClaroNav is a young company within the dental market—speaking about the future: where do you see the further development of Navident?

Navident provides a comprehensive 3-D software package which allows the dental surgeon to import (CB)CT images, prepare 3-D visualisations of the ideal teeth setup and plan where implants should be placed. The navigation functionalities are tightly integrated and provide guidance and visual feedback to ensure the implants are placed according to plan.

We aim to release product updates, upgrades with new and improved features on both the planning and navigation side. Our current roadmap includes the following three priorities: First, additional prosthetic-driven planning features; second, documentation functions which include pre-op planning and post-op outcome; and third, dedicated versions for other specialties, such as orthodontics and endodontics.

Where and how can the dental specialist purchase Navident, already? And which are the new focus markets that you want to provide with this new system?

We are interested in spreading the technology all over the world and we have had interest from all over the world. We are in the process of qualifying potential distributors in different markets for this purpose. If doctors or dealers are interested in Navident, contact our head office in Canada or our European office in Belgium to inquire about importation rules and representation in their area.

Thank you for this interview.

