Launching a novel cutting-edge dental laser line

During the upcoming International Dental Show (IDS) in Cologne, Germany, taking place from 12 to 16 March 2019, Light Instruments, inventor of LiteTouch™ and the Laser-in-Handpiece technology, will present a new line of dental lasers.

In a recent interview with laser, Eric Ben-Mayor, the CEO of Light Instruments and Prof. Roly Kornblit, Light Instruments' Scientific Advisor, talked about the company, technological innovations, scientific developments and the new dental laser line just added to the company portfolio.

Mr Ben-Mayor, what developments have you experienced at Light Instruments in the past two years?

Since 2016, many changes have occurred, both within our organisation and in the world of the dental laser market. We first experienced this change at the IDS in 2017, where we could feel the curiosity and the acknowledgement of the dental community towards dental lasers. At the IDS we also officially launched our new and impressive LiteTouch™ 3 model which, without a doubt, has changed the face of all-tissue dental lasers as we know it. We have been working tirelessly, and with our newly opened Latin American market following the ANVISA approval of the Brazilian Health Regulatory Agency for the LiteTouch™ and the entry into this huge and growing LATAM market, we have driven the brand further than before.

Today, as the front-runners of the dental laser market, I am excited to announce that we are expanding our variety of high-end dental lasers. In addition to the D-Touch which is our newly developed diode laser, we have added the Dentaray brand to our portfolio and it is an unmatched CO_2 laser, the first and only 9.6 µm wavelength.

Why did Light Instruments decide to partner with Dentaray? And what are the main advantages of the new 9.6 µm CO_2 laser?

Dentaray is an Israeli brand avant-garde start-up. Its addition to our portfolio was another step within a sequence of collaborations with high technology manufacturers and innovative companies that the group intends to partner with, while affirming our position as a global leader.

Dentaray is the first and only 9.6 µm CO_2 dental laser. This widely researched wavelength is applicable in hard and soft tissue, and allows unique clinical applications, thus positioning the Dentaray as to become a premium laser device.

The Dentaray has been designed as an eye-catcher within the clinic. Its sophisticated design combined with its unique capabilities will certainly make it a must-have

for every dental clinic that wants to become a major player in the dental laser world—with a bit of chic.

What are the highlights of the new D-Touch diode laser?

Our new D-Touch diode laser is a 980 nm. This wavelength is well absorbed by pigments and provides additional range of possibilities for soft-tissue procedures. Diodes today are a common tool in almost all advanced dental clinics. Our D-Touch laser will provide all dentists with an easy access to the advanced world of laser dentistry. We have decided to provide our customers with the same ease and comfort of a diode laser, as we did with our Erbium:YAG laser. I am sure that anyone who will use our D-Touch will quickly understand the difference.

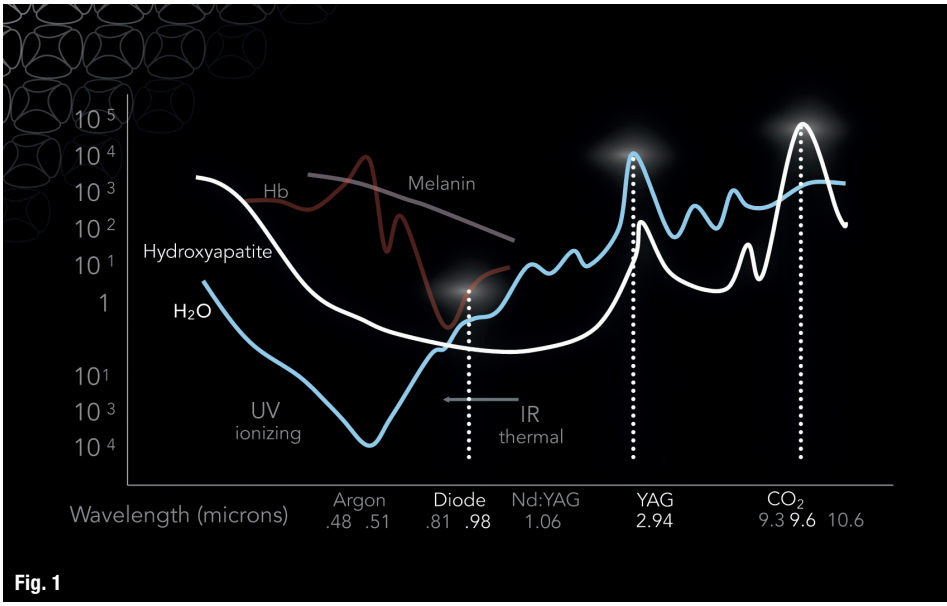

Fig. 1: Wavelengths offered by Light Instrument's family of dental lasers.

Prof. Kornblit, what can you tell us about the latest scientific developments of the company?

Over the recent years, Light Instruments has invested much effort and resources in the development of new applications perfecting the existing protocols and most importantly, training dentists around the world—spreading the gained knowledge about the LiteTouch™ Er:YAG laser's large diversity of dental and maxillofacial surgery applications.

> "We have added the Dentaray brand to our portfolio and it is an unmatched CO_2 laser, the first and only 9.6 µm wavelength."

Many of Light Instruments' researches are conducted in collaboration with universities, based on multicentre academic consultations and users' clinical evaluation processes. To name just a few: In paediatric dentistry for example, the pre-eruptive intra-coronal resorption (PEIR), a defect located in the dentine of an unerupted tooth can today be resolved following a simple clinical protocol using LiteTouch™ that we developed together with the Paediatric Department of Hadassah Jerusalem University. In restorative dentistry, we developed a special protocol for the debonding of veneers without damaging the tooth structure or the porcelain veneer, allowing the reuse of the veneer.

Further, peri-implant diseases have drawn much attention in recent years owing to the continuously growing number of cases. To this day, there is no validated treatment. Light Instruments is currently developing a new unique tip for LiteTouch™ that can perform a perfect 360-degree disinfection of the implant surface without causing any damage to the implant surface or any rise in temperature neither in the implant nor the surrounding tissue.

More and more universities around the world have included the LiteTouch™ Er:YAG laser in their graduate and post-graduate education programmes, as well as in their hospitals. Light Instruments pays particular attention to continuous education, offering a growing number of laser dentistry postgraduate programmes at academic institutions and private training centres in different countries.

Mr Ben-Mayor concluded: We are excited to launch our new dental laser line at the IDS 2019, implementing our vision of developing the latest cutting-edge technologies and products. We believe that our new dental laser line is a breakthrough line providing dentists with the best available solutions, contributing to improved modern dentistry anywhere in the world. We will continue to provide superior products with the highest technology in the future.

To arrange a meeting during the IDS in Cologne, Germany, please send an e-mail to office@light-inst.com.

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