

“Powerful, but remarkably gentle to the bone”

Georg Isbaner, editor of implants, talked to Prof. Moses Ofer from Alpha-Bio Tec about the company's new implant system NeO implants. They also discussed how thread design and implant surface properties effect osseointegration and trends in implantological research and clinical applications.

The company has introduced its NeO implant system as a new technology and a sensation in oral implantology. What does that entail?

Users will know what we mean with “sensational” from the sensation when they first insert our implant into the bone. It is very light, and is easily inserted into the bone due to several features: one is its ability to centralise itself. Furthermore, the direction of the threads is opposite to that of the other implant threads. Contrarily to conventional implants, our new NeO implant features an advanced coronal part. Another related feature is its coronal flute, which acts like a scraper and improves the cutting efficiency of the coronal part. This means that the bone is rather spread than squeezed by the implant, leading to bone particles being collected at the implant, which leaves a lot of new bone in this area to help stabilise the implant mechanically in the first stage. In the second stage, there is more osseointegration in this part of the flute area.

Better and more osseointegration?

Yes. And the bone particles themselves are autologous bone grafts. We had it tested by Prof. Dr Dieter Bosshardt from Bern. We already have the results, including a scientific article on the positive outcome of the analysis: NeO is a comprehensive implant that can easily penetrate and navigate the osteotomy of all bone types while preserving the bone.

You said it's the thread design “pulls” the implant. How much torque would you use exactly?

If you follow the preparation recommended by Alpha-Bio Tec, you will not have to apply more than 40 Ncm. If you use more, you might create a problem, such as compression necrosis.



How important is research for you as a scientist?

Simply to prove the theory, which makes NeO clinically applicable. NeO's more than 28 years of proven clinical know-how, which root it safely in the company's values of high-quality, innovation and simplicity.

Can you describe the surface technology of the implant more detailed?

NeO features a SLActive surface. This special implant surface accommodates osseointegration on a biochemical level, as its hydrophilic and chemically active properties promote accelerated osseointegration and earlier secondary stability. Furthermore, NeO's rough surface results in more BIC, more coronal direction and therefore less crestal resorption.

Prof. Ofer, thank you very much for the interview.

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Fig. 1: Georg Isbaner, editorial manager of implants: international magazine of oral implantology, and Prof. Moses Ofer during their interview at the EAO Congress in Paris by the end of September.