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The 3rd International ISQ Symposium: Guidelines in Dental Stability Assessment

Dr Jan Gottlow, Dr Paolo Trisi, and Prof Peter Moy presented clinical guidelines as well as new findings on Osstell and ISQ at the 3rd International ISQ Symposium at the EAO congress in Athens.

The 3rd International ISQ Symposium attracted more than 250 participants listening to prominent lecturers speaking about the clinical use of ISQ and related new research. The themes for this year's EAO congress in Athens were Avoiding and Managing Complications, Risk Indicators, Loading and Treatment Protocols, and Outcome Predictability – all subjects correlated to the clinical benefits of using Osstell ISQ. Dr Marco Degidi, Italy, chaired the meeting and presented the three speakers:

Dr Jan Gottlow, Sweden: *Researcher at the Department of Biomaterials, Institute for Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, private practice in Gothenburg.*

Prof Peter Moy, USA: *Professor, Department of Oral and Maxillofacial Surgery. Nobel Biocare Endowed Chair, Surgical Implant Dentistry. Director, Straumann Surgical Dental Center. UCLA, School of Dentistry*

Dr Paolo Trisi, Italy: *Adjunct Professor, University of Chieti. Adjunct Professor, University of Naples. Private Practice in Pescara.*

Dr Gottlow provided a thorough background presentation of Osstell ISQ and RFA technology, including clinical data and suggestions as to which values to expect in different situations. He presented data from other clinicians that were similar to the data presented by Dr Moy. Dr Gottlow also presented new data recently submitted for publication that correlated the ISQ measurement scale to lateral micro motion in implants.

The correlation between ISQ and micro motion was first presented in a publication in 2010 by the next speaker, Dr Trisi. Dr Trisi stated that although it would be preferable to make direct micro motion measurements in vivo, this is not possible. However, since the correlation to ISQ is very apparent, ISQ values can be used to indirectly assess micro motion. Micro motion of a dental implant is of course directly linked to the stability of the implant. He also presented data showing that although several different implants may be placed using the same final torque in the same bone quality, the micro motion of these implants can differ substantially, from 30-100 microns – indicating a similar difference in stability.

The final speaker, Prof Moy, presented clinical guidelines derived from more than 1,000 patient treatments – all assessed using ISQ measurements. The guidelines described different indications and how to use Osstell ISQ in various clinical situations. Prof Moy has more than a decade's experience of using Osstell and showed that there seems to be a cut-off value at ISQ 56 for one-stage implants, below which the failure rate increases dramatically, to more than 10%.

"From these leading pioneers we learnt about the development of more specific clinical guidelines on how to use the ISQ scale. But also how well some very concrete meanings of implant stability - like micro motion – clearly correlates to ISQ. We are grateful for their excellent work and believe the ISQ Symposium is a great way to share the new findings", said Jonas Ehinger, President and Managing Director, Osstell AB.

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Video clips from the symposium will be available shortly.

About Osstell AB

Osstell AB, based in Gothenburg, Sweden, specializes in instruments for analyzing dental implant stability. The company's latest product, Osstell ISQ, measures the stability of implants in an objective, non-invasive manner using the universal ISQ scale (Implant Stability Quotient). The ISQ values help dentists determine the optimal time to load each implant. Also, by detecting decreasing stability, Osstell ISQ can help prevent failure caused by premature loading. Over 300 studies and ten years of clinical experience around the world confirm the usefulness of Osstell ISQ for dentists and surgeons.