Osstell ISQ

Your guide to

Predictable surgical and restorative protocols

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www.osstell.com

Two main reasons why you need Osstell ISQ

The nature of implant treatment is evolving

It will always be you as the treating doctor, together with your patient, who will decide which treatment protocol to use.

Today patients want good looking teeth and they want them sooner rather than later. More patients are asking for early and immediate loading of their implants. And patients who in the past might not have been candidates for implants are also asking to be treated.

Naturally, this places greater demands on dentists and the available technology. The successful treatment of risk patients, and early loading creates a need for more advanced diagnostic tools.

The Osstell ISQ is such a tool. It's a complete diagnostic system for determining implant stability and osseointegration. It provides you as the treating dentist with the accurate, consistent and reliable stability measurements needed to make informed decisions about which surgical and prosthetic protocols to use. As part of your quality assurance system it also makes it easier to explain treatment planning to both patients and colleagues.

1. Manage implants at risk

You'll find the Osstell ISQ especially valuable when treating higher risk patients and implants at risk of failure due to poor integration. Osstell gives you an early warning, as a decreased ISQ value, if osseointegration isn't progressing as expected. It can help you and your patients avoid the cost of implant failure or redoing a crown due to premature loading.

2. Reduce treatment time

If the initial mechanical stability is high enough a one-stage approach is often used together with immediate- or early loading. Measuring again before the final restoration, and comparing that value to the baseline value taken at placement, makes the decision whether to proceed quick and easy.

Micromotion

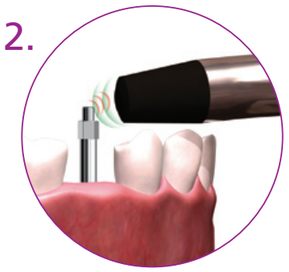
The avoidance of micromotion, by correctly assessing implant stability and osseointegration, is a key to a predictable treatment outcome. the Osstell ISQ does this for you – accurately and objectively.

As easy as 1, 2...

1.

The SmartPeg™ is attached to the implant. It screws effortlessly into the implant's internal thread.

2.



The hand-held probe stimulates the SmartPeg magnetically, without actually being connected to it – or even touching it – and the value is displayed in a second.

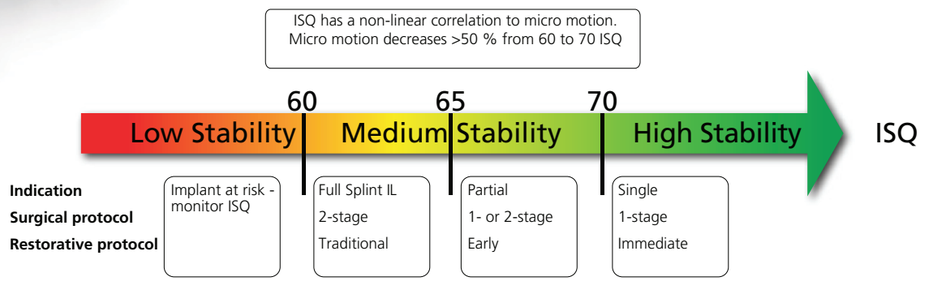
The ISQ Scale – a global standard

ISQ (Implant Stability Quotient) is a measurement scale for use with the RFA (Resonance Frequency Analysis) method of determining implant stability and osseointegration, presented on a clinically useful scale of 1-100 ISQ. The ISQ scale correlates perfectly with micromotion: the higher the ISQ, the more stable the implant.

Here is how the Osstell ISQ works and what it achieves

The Osstell ISQ instrument stimulates a SmartPeg mounted on the implant, by emitting magnetic pulses. These cause the SmartPeg to resonate at certain frequencies depending on the stability of the implant. This is a wireless non-invasive and completely objective technique. The SmartPegs have been calibrated in such a way that they all show comparable values for the same degree of stability.

A summary of > 500 articles



The ISQ scale makes it possible to establish a standard clinical range of 1-100. More than 500 studies have been conducted based on RFA measurements and the ISQ scale. A searchable database can be found at *www.osstell.com/scientific-forum*

Osstell Scientific Forum

Prof. Daniel Buser

Professor and Chairman, Dept. of Oral Surgery and Stomatology, School of Dental Medicine, University of Bern, Switzerland.

Prof. Neil Meredith

Professor in Prosthodontics, University of Queensland, Brisbane, Australia

Prof. Peter K. Moy

Oral & Maxillofacial Surgeon, Professor, Oral & Maxillofacial Surgery, UCLA, Los Angeles, USA, Director, Implant Dentistry.

Prof. Lars Sennerby

Dept of Oral & Maxillofacial Surgery, Institute of Odontology, University of Gothenburg, Sweden, Clinica Feltre, Feltre, Italy

"As scientific advisors to the Osstell Scientific Forum, we would like to welcome you to make use of it. We have all been using RFA technology and the ISQ scale for many years – in our daily work as well as in our research.

We want to encourage you to explore this useful technology and scale, and to share your data and clinical experience with the ISQ Forum. Together, we can develop a substantial scientific and clinical database that will help all of us optimize the clinical outcome for our patients."

Diagnostics by Osstell – a personal commitment

More than 20 years ago, two scientists shared the frustration of not being able to determine osseointegration in an accurate, objective, and consistent way – beyond their own dexterity and tactile skills. The concept of Resonance Frequency Analysis was developed.

The company was formed in 1999, and today more than 9 000 clinicians all over the world use the Osstell ISQ. All Osstell employees are personally committed to the worldwide adoption of our unique diagnostics solution and to the continuous growth of our company. To succeed, we ensure that our customers receive the unrelenting support and service they deserve.

Osstell AB is based in Gothenburg Sweden where we develop, manufacture and market our products globally through distribution partners and direct representations. Since 2007 the company has been a part of the Biolin Scientific group, which is a leading provider of analytical instruments for the nanoscale study of interfaces.

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