20 Jahre Erfahrung mit der Resonanzfrequenzanalyse
Sennerby L Prof, Sahlgrenska Academy, University of Gothenburg, Sweden
Implantologie 2013;21(1):21-33 (In German)

Translated from German: "It is likely that ISQ measurements can be used as one additional parameter for diagnosis of implant stability and decision-making during implant treatment and follow-up. The threshold values are the present author's own somewhat conservative suggestions based on own experience and other values may be relevant for other clinicians and implant designs. The green zone contains “safe” implants showing primary ISQ values from, for instance 70 and above. The red zone contains “questionable” implants with an ISQ value below for instance 55. The yellow zone represents implants with an ISQ from 55 to 70".

Immediate vs. early loading of SLA implants in the posterior mandible: 5-year results of randomized controlled clinical trial
Kokovic V, Jung R, Feloutzis A, Todorovic V, Jurisic M, Hä默merle C
Clinical Oral Implants Research, 00, 2013, 1-6

After 5 years, survival in the both groups was 100%. The mean value of primary implant stability was 76.92 ± 0.79 ISQ. In the first 6 weeks, ISQ values significantly increased in the test group as well as in the control group. Based on these results, the self-tapping implants inserted in posterior mandible can provide adequate primary stability value as the main factor for immediate and early loading protocol.

Early Loading of Nonsubmerged Titanium Implants with a Chemically Modified Sand-Blasted and Acid-Etched Surface: 6-Month Results of a Prospective Case Series Study in the Posterior Mandible Focusing on Peri-Implant Crestal Bone Changes and Implant Stability Quotient (ISQ) Values
Michael M. Bornstein, Dr. med. dent.; Christopher N. Hart, DMD; Sandro A. Halbritter, Dr. med. dent.; Dean Morton, BDS, MS; Daniel Buser, Prof. Dr. med. dent.
Clin Implant Dent Relat Res 2009

If the ISQ value at day to load is < 65, an additional healing period is recommended, and the ISQ value is measured again 3 weeks later until the required level is reached. This approach is practical and well understood by patients. (Prof. Daniel Buser prefers ≥ 70 ISQ, single teeth, early loading/Stauremann, otherwise add three weeks, according to an oral presentation given at the Osstell Scientific Symposium in connection to the of the EAO 2010)

The Predictive Value of Resonance Frequency Analysis in the Surgical Placement and Loading of Endosseus Implants

One-stage placement of implants with ISQ values greater than 66 can be performed. Implants with ISQ values less than or equal to 66 should be placed using the two-stage protocol, which shows a higher survival rate. The computed ISQ = 66 cut-off value used to select between one-stage and two-stage placement is validated in this study. Moreover, early loading of implants with ISQ values greater than 64 can be performed. Implants with ISQ values less than 64 should utilize traditional loading, which shows a higher survival rate. The computed ISQ = 64 cut-off value used to select between early and traditional loading is validated in this study. Higher ISQ values at osseointegration correlate with higher survival rates.
These articles are useful guideline examples – selected from 1000+ studies which support and evidence the Osstell ISQ scale in clinical applications.

The Osstell ISQ scale, based on using Osstell SmartPegs, is the only proven and evidence based method with more than 1000 scientific publications. A searchable database for your convenience can be found at: www.osstell.com/scientific-database