# **1-Year Results of a Prospective Clinical Trial Confirm Positive Clinical Outcomes** With INICELL® Surface



Hinkle RM et al, J Oral Maxillofac Surg. 2014; 72:1495–502





## Background

INICELL® is a chemical alteration of the sandblasted and thermal acid-etched standard implant surface from Thommen Medical. Chairside conditioning results in a stable superhydrophilic implant surface.

Hydrophilic surfaces have been shown to enable more homogenous protein adsorption, leading to accelerated osseointegration.





3 experienced implant surgeons | 21 patients | 23 SPI®ELEMENT RC INICELL® implants\*

# **Results**

Stable marginal bone levels, 100% survival rate, and high patient satisfaction over 1 year

### Stable radiographic marginal bone levels (N=23)\*\*



#### The most coronal bone-to-implant contact stabilized just beneath the machined collar

#### 25 20 Jumber of patients 15 10 5 0 0

High patient satisfaction after 1 year (N=21)



Not

statisfied

Ω

No reported complication in 23 assessed implants\* No implant was lost within the observation period of 1 year

Partly

statisfied

Fully

statisfied

# **Key Takeaways**

- ✓ The study confirmed that early loading of SPI®ELEMENT INICELL® implants three weeks after placement is a safe and predictable treatment option
- The authors state that the stable marginal bone levels appear to be dependent on the features, the geometry, and the surface characteristics of the SPI®ELEMENT INICELL® implant line

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Medical

\*From originally 23 patients and 25 implants, one patient with one implant was excluded. The patient did not take the prophylactic presurgical antibiotic leading to failed osseointegration and exclusion from the study. Another patient with one implant discontinued the study prematurely due to a broken provisional crown \*\*Median and the interquartile range are represented. DIB, distance implant bone; RC, regular collar