

Significantly Higher Early Survival Rates With INICELL® Compared to Unconditioned Implants

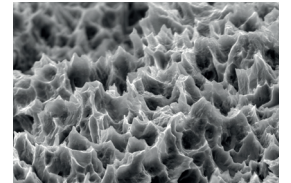
Le Gac O, Grunder U, Dent.J. 2015;3:15-23



Background

The superhydrophilic implant surface INICELL® from Thommen Medical is created by exposing the standard sandblasted and thermal acid-etched (TST) surface to a conditioning liquid immediately before implantation.

One of the advantages of superhydrophilic enossal surfaces like INICELL® is an earlier osseointegration.



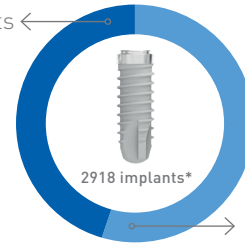
Aim

Retrospectively compare survival rates and clinical performance between SPI®ELEMENT RC implants with an INICELL® or an unconditioned surface



Study Design

1337 INICELL® implants
Follow-up:
2.1 (1.1-5.4) years



1581 unconditioned implants
Follow-up:
4.5 (1.3-5.9) years

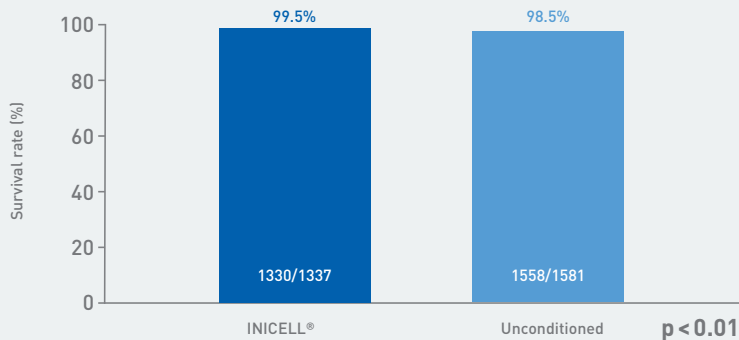
! No exclusion of patients with risk factors such as smoking or medical history



Results

High implant survival rates reported in both groups

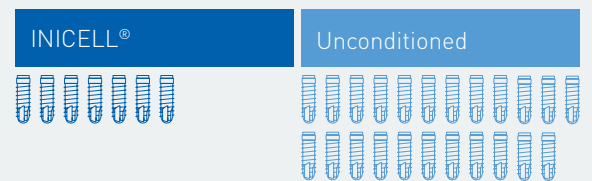
Significantly higher survival rate with INICELL® compared to unconditioned implants



All reported implant failures occurred early**



Early failed implants



Excellent overall cumulative survival **99.0%**



Key Takeaways

- ✓ Implants with a superhydrophilic INICELL® surface show significantly higher early survival rates compared to unconditioned implants
- ✓ Implant survival with SPI®ELEMENT RC is generally high with both INICELL® and the unconditioned surface

*The placement pattern between the two groups was similar. Implants were placed in 1063 different patients in one specialized center for oral implantology **Early implant failure is defined as before functional implant loading at 2 months after implant placement. Due to 100% early implant losses, the difference in long-term survival cannot be attributed to the varying follow-up lengths. RC, regular collar.