

# A Prospective Clinical Study to Evaluate the Performance of PURE Ceramic Implants in Single Tooth Gaps: 3-Year Results<sup>1</sup>

Kai-Hendrik Bormann, Nils-Claudius Gellrich, Heinz Kniha, Sabine Schild, Dieter Weingart, Michael Gahlert

## Aim

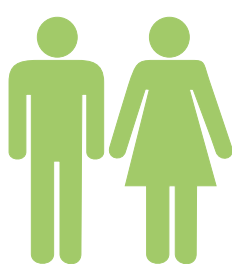
- To evaluate the mid-term clinical performance of a Straumann® PURE Ceramic Implant Monotype in single-tooth gaps in the maxilla and mandible
- To confirm the previously published results<sup>2</sup> on hard and soft tissue parameters after 3 years of follow-up

### Study duration



3 Years

### Patients



17      27  
Mean age  
48 Years

### Study design

**Indication**  
Single tooth gaps

**Protocol**  
Transmucosal implant placement in healed extraction sites

**Provisionalization**  
After 12–14 weeks

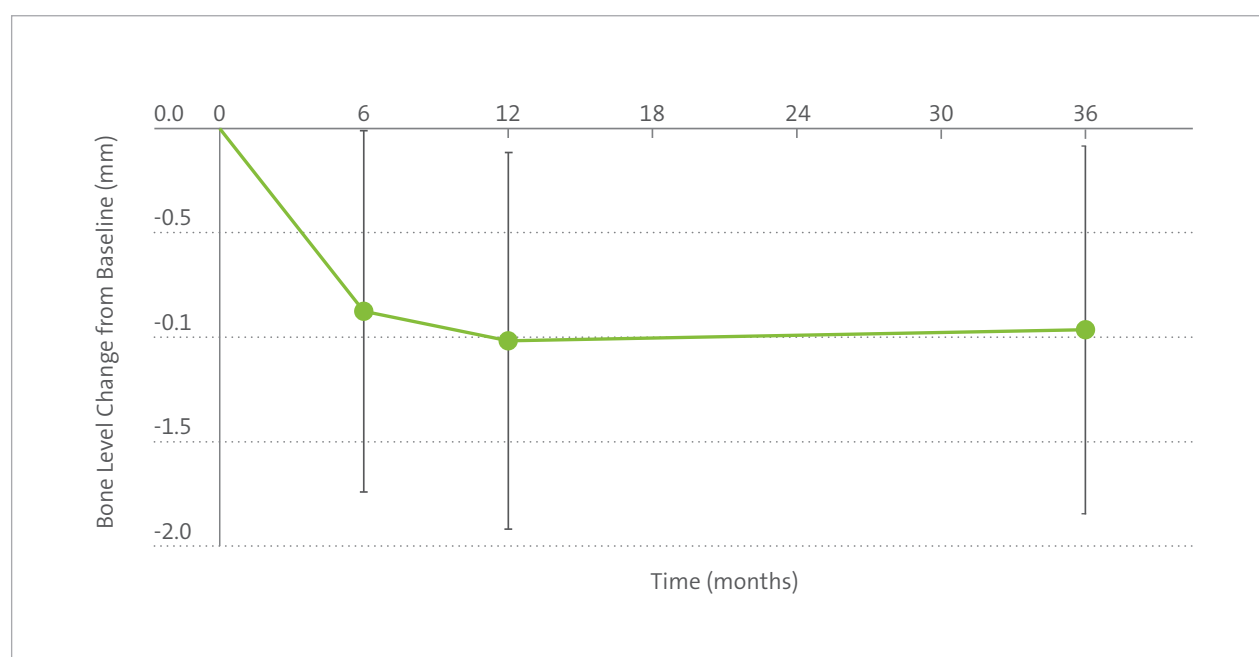
**Final restoration**  
After 28 weeks

### Study implant



Straumann® PURE Ceramic Implant Monotype

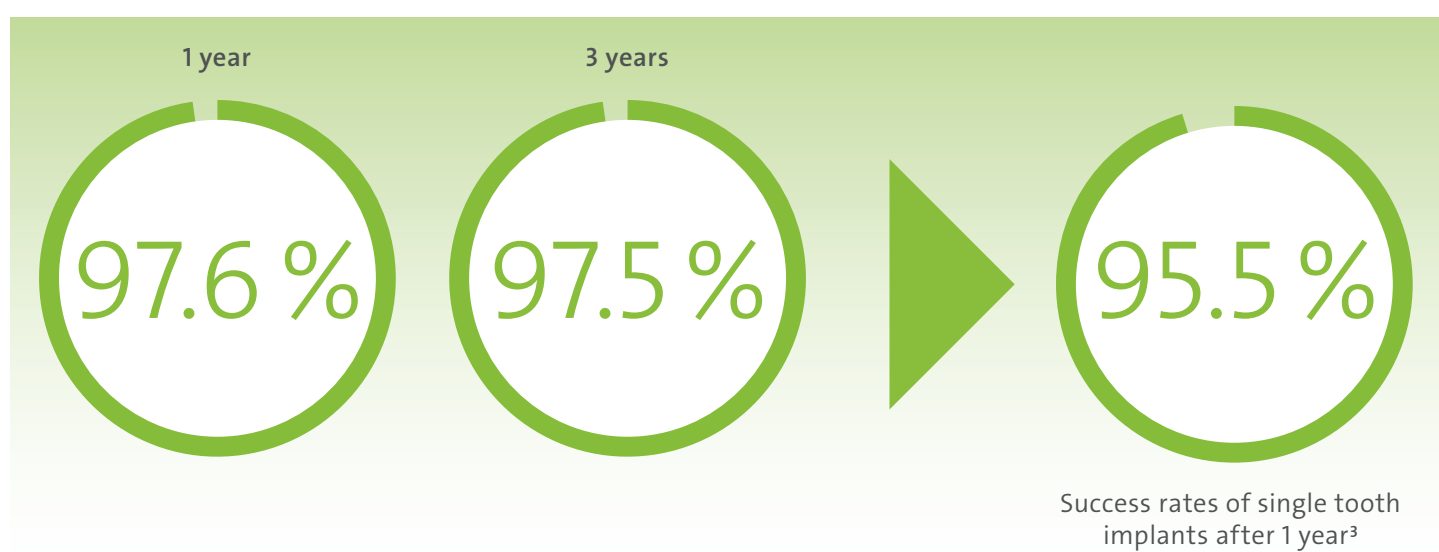
## STABLE bone levels



After an initial remodeling phase (0–6 months), crestal bone level remained stable, 0.09 mm change between 6 months and 3 years.

## EXCELLENT performance

Implant success and survival after 1 and 3 years follow-up vs. meta-analysis<sup>3</sup>



## Conclusions

- Straumann® PURE Ceramic Implant Monotype shows excellent survival and success rates of 97.5% and stable bone levels after 3 years of follow-up.
- The PURE Ceramic Implant Monotype offers a reliable and successful treatment alternative to Titanium implants.

### References

<sup>1</sup> Bormann KH, Gellrich NC, Kniha H, Schild S, Weingart D, Gahlert G. A Prospective Clinical Study to Evaluate the Performance of Zirconium Dioxide Dental Implants in Single Tooth Gaps in the Maxilla and Mandible: 3-Year Results. Manuscript submitted. <sup>2</sup> Gahlert M, Kniha H, Weingart D, Schild S, Gellrich NC, Bormann KH. A prospective clinical study to evaluate the performance of zirconium dioxide dental implants in single-tooth gaps. Clin Oral Implants Res. 2016; 27(12): e176-e184. <sup>3</sup> den Hartog L, Huddleston Slater JJR, Vissink A, Meijer HJA, Raghoobar GM. Treatment outcome of immediate, early and conventional single-tooth implants in the aesthetic zone: a systematic review to survival, bone level, soft-tissue, aesthetics and patient satisfaction. J Clin Periodontol. 2008; 35: 1073-1086.