

# Clinical Performance of PURE Ceramic Implants in Single-Tooth Gaps: 5-Year Results<sup>1</sup>

## 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 5 years of follow-up

## Study duration



5 Years

## Patients



15

21

Mean age

53 Years

## Study design

### Indication

Single-tooth gaps

### Protocol

Transmucosal implant placement in healed extraction sites

### Provisionalization

After 12–14 weeks

### Final restoration

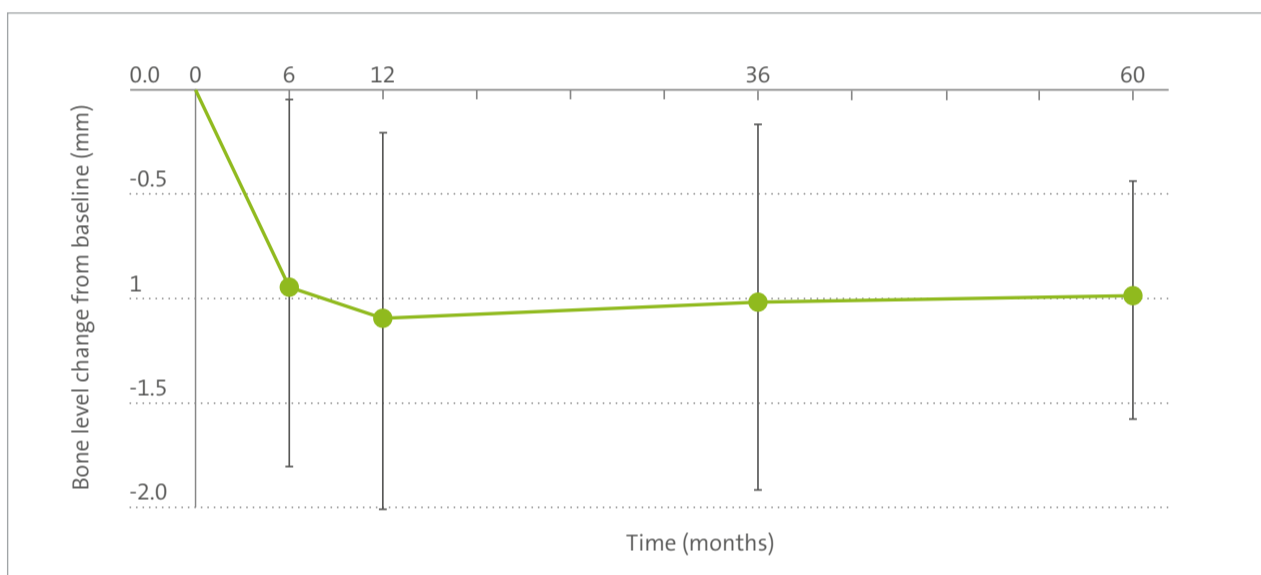
After 28 weeks

## Study implant



Straumann® PURE Ceramic Implant Monotype

## STABLE bone levels



After an initial remodeling phase (0–6 months), crestal bone level remained stable, **0.04 mm change between 6 months and 5 years.**

## EXCELLENT performance

Implant success and survival after 5 years follow-up vs. meta-analysis<sup>3</sup>

### Survival rate PURE



Survival and success rates of single-tooth PURE Ceramic Monotype implants after 5 years

### Success rate PURE



### Meta-analysis titanium implants



General survival rate of single tooth titanium implants after 5 years<sup>4</sup>

## Conclusions

- Straumann® PURE Ceramic Implant Monotype shows excellent survival and success rates of 97.2% and stable bone levels after 5 years of follow-up.
- The PURE Ceramic Implant Monotype offers a reliable and successful treatment alternative to Titanium implants.

## References

- <sup>1</sup> A Prospective Clinical Study to Evaluate the Performance of Zirconium Dioxide Dental Implants in Single Tooth Gaps in the Maxilla and Mandible: 5-Year Results. Manuscript in preparation  
<sup>2</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. BMC Oral Health. 2018 Nov 1;18(1):181  
<sup>3</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>4</sup> Salinas T, Eckert S. Implant-supported single crowns predictably survive to five years with limited complications. J Evid Based Dent Pract. 2010 Mar;10(1):56-7.