straumann® Pure

Ceramic Implant

More than pure esthetics.

The natural-looking and strong solution.

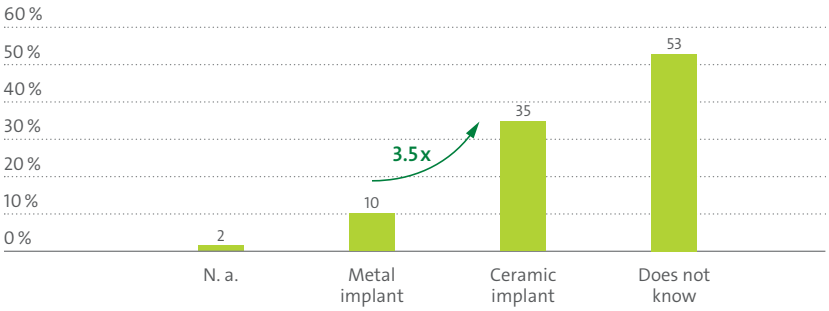
straumann®

simply doing more℠

Expand your patient pool
with an innovative solution.

The Straumann® PURE Ceramic Implant provides clinicians and patients with an additional reason to choose implant treatment over conventional tooth replacement. A survey in Europe[1] of over 250 patients indicated that many would prefer a ceramic implant over a titanium implant.

Patient survey showing implant material preference of patients[1]



For clinicians, a ceramic implant is a valuable opportunity to expand their patient base. Consequently, offering treatment with the Straumann® PURE Ceramic Implant* will enable you to further differentiate your practice and meet your patients' expectations:

Esthetic cases can be challenging. **What options do you have for patients with a thin gingiva type demanding an esthetic treatment?**

Patient requests for metal-free dental implants are constantly increasing. **How well-equipped are you to treat patients who ask for metal-free treatment?**

High predictability is key for successful treatment and has a significant impact on a clinic's reputation. Prerequisites for predictability are mechanical stability and osseointegration. **How much emphasis do you grant these factors in your treatment choice?**

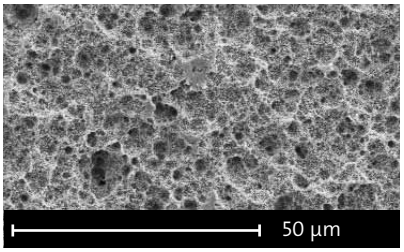
* May not be available in all countries, subject to regulatory approval and market release. Please ask your Straumann Territory Manager for more information and availability.

The Straumann® PURE Ceramic Implant
is based on decades of experience.

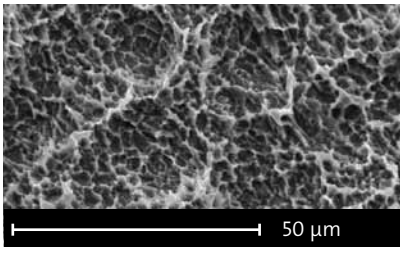
The Straumann® PURE Ceramic Implant is based on decades of experience. The Straumann® PURE Ceramic Implant offers you a distinctive esthetic solution to treat patients with specific needs. While some patients have a thin gingiva biotype, which requires a specific treatment approach, other patients express their explicit wish for a metal-free alternative.

HIGH PREDICTABILITY WITH OSSEOINTEGRATION PROPERTIES EQUIVALENT TO ESTABLISHED SLA® SURFACE[2,3,4]

For successful treatment with high predictability, surface structure plays an important role in achieving osseointegration.[5 – 8] The Straumann® PURE Ceramic Implant features the ZLA® surface, which is based on the well documented SLA surface. The ZLA and SLA surfaces have very similar topographies. Published research data[2,3,4] indicates a similar healing pattern, healing time of 6 – 12 weeks and bone maintenance for the ZLA and the SLA surface. The ZLA surface demonstrates fast and predictable osseointegration, which is beneficial in successful implant treatment.

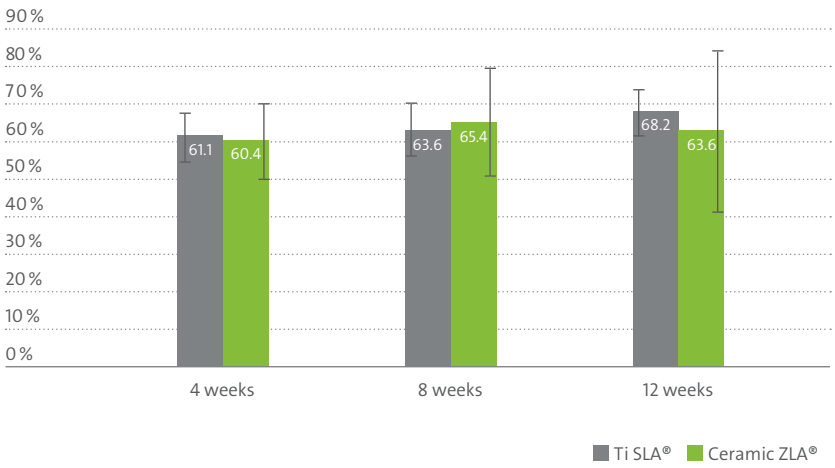


ZLA® surface



SLA® surface

Mean peri-implant bone density values[2]



100% PROOF TEST ENSURING RELIABLE IMPLANT STRENGTH

Studies have reported implant fractures of all-ceramic implants of certain manufacturers,[9] demonstrating how important mechanical stability is in the long term for a predictable treatment. The Straumann® PURE Ceramic Implant is designed and produced to mitigate these risks of fracturing and instability. The implants are manufactured from a high-performance Zirconia (Y-TZP).

In addition to the specific material choice, highly controlled production processes have been set to help guarantee exceptional levels of quality. As a last check, every single implant passes a 360° mechanical strength quality check (proof test) before being packaged and delivered to the customer.

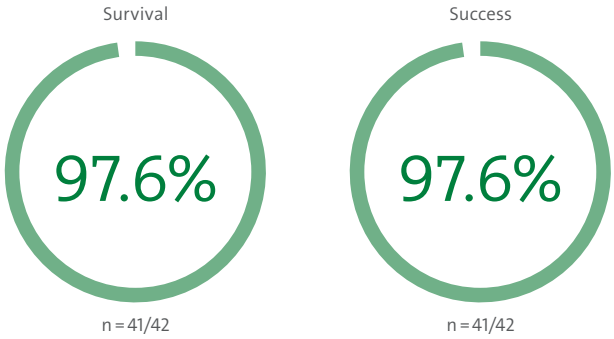
The implant's excellent mechanical strength has been confirmed in a clinical study where zero fractures where reported after the 1-year follow up.[10] This high product standard and study data allow patients and clinicians to be confident about the reliability of the Straumann PURE Ceramic Implant.

Fig. 1: Test setup according to ISO 14 801

High-end esthetic solution thanks to
the ivory-colored material

Patient demands most often include an uncompromised esthetic outcome of the treatment. In order to to meet this need, the Straumann® PURE Ceramic Implant has a natural looking ivory color. This specific feature makes the implant look more like a natural tooth and it supports the clinician in cases of thin gingiva biotype or soft tissue recession.

Success and survival rates of the Straumann® PURE Ceramic Implant after 1-year follow up within a multicenter study[10]

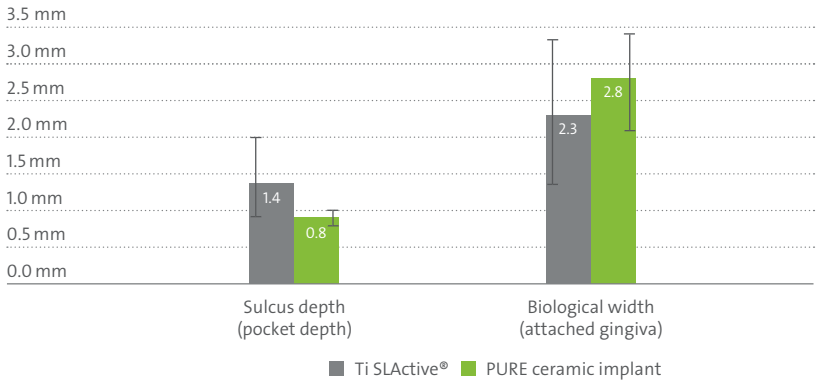


A courtesy of Dr. Claude Jaquiéry & Dr. Stefan Röhling

In addition to the color, the soft tissue also plays an important role in the esthetic outcome. An animal study has shown a reduced pocket depth and high soft tissue attachment on the Straumann® PURE Ceramic Implant compared with a titanium implant.[4]

Clinicians have also observed ongoing papilla development provided the final restoration is designed to provide adequate space.

Pocket depth and biological width measurements of titanium and ceramic implants[4] (mean values)



The implant and its properties

The Straumann® PURE Ceramic Implant has a monotype design based on features of the Straumann® Soft Tissue Level Standard Plus and Straumann® Bone Level Implants.

The Straumann® PURE Ceramic Implant can be placed with the existing Straumann® Surgical kit while using a very similar surgical procedure as for all other Straumann implants. It is available in endosteal diameters of Ø 4.1 mm or 3.3 mm, with abutment heights of 4.0 mm or 5.5 mm. The implant system uses the same unified color code for instruments and implants as Straumann® titanium implants.

The product portfolio comprises tools to check proper implant placement for restorative considerations. Specific position indicators allow clinicians to check the abutment direction and restorability of the implant. These indicators can be used after first drill and after the final drill. Specific impression caps and implant analogs are available for the abutment heights to transfer information of the in-situ situation to the dental lab.

*RD = Regular Diameter **ND = Narrow Diameter

The Straumann® PURE Ceramic Implant provides you with a distinctive esthetic implant based on decades of experience. This exciting addition to the Straumann Dental Implant System allows you to:

- Expand your patient pool with an innovative solution
- High end esthetic solution thanks to ivory-colored material
- High predictability with osseointegration features equivalent to the established SLA® surface[2,3,4]
- 100% proof test ensuring reliable implant strength

«Straumann's new ceramic implant is a very simple and well-designed system. I like that Straumann, as an established manufacturer, now gives me the opportunity to treat patients who explicitly wish to have a ceramic implant restoration.»

Dr. med. Dr. med. dent. Roland Rippel, Praxis am Stadtpark, Nürnberg/Germany

REFERENCES

1 Straumann patient survey, Data on file.

2 Gahlert M, Roehling S, Sprecher CM, Kniha H, Milz S, Bormann K. In vivo performance of zirconia and titanium implants: a histomorphometric study in mini pig maxillae. Clin Oral Implants Res. 2012 Mar;23(3):281-6. Epub 2011 Aug 2.

3 Bormann KH, Gellrich NC, Kniha H, Dard M, Wieland M, Gahlert M. Biomechanical evaluation of a microstructured zirconia implant by a removal torque comparison with a standard Ti-SLA implant. Clin Oral Implants Res. 2012 Oct;23(10):1210-6. Epub 2011 Nov 14.

4 Data on file (Blanco).

5 Buser D, Nydegger T, Oxland T, Cochran DL, Schenk RK, Hirt HP, Snétivy D, Nolte LP. Interface shear strength of titanium implants with a sandblasted and acid-etched surface: a biomechanical study in the maxilla of miniature pigs. J Biomed Mater Res. 1999 May;45(2):75-83.

6 Buser D, Janner SF, Wittneben JG, Brägger U, Ramseier CA, Salvi GE. 10-year survival and success rates of 511 titanium implants with a sandblasted and acid-etched surface: a retrospective study in 303 partially edentulous patients. Clin Implant Dent Relat Res. 2012 Dec;14(6):839-51.

7 Roccuzzo M, Bonino L, Dalmasso P, Aglietta M. Long-term results of a three arms prospective cohort study on implants in periodontally compromised patients: 10-year data around sandblasted and acid-etched (SLA) surface. Clin Oral Implants Res. 2014 Oct;25(10):1105-12. Epub 2013 Jul 19.

8 Cochran DL, Buser D, ten Bruggenkate CM, Weingart D, Taylor TM, Bernard JP, Peters F, Simpson JP. The use of reduced healing times on ITI implants with a sandblasted and acid-etched (SLA) surface: early results from clinical trials on ITI SLA implants. Clin Oral Implants Res. 2002 Apr;13(2):144-53.

9 Gahlert M, Burtscher D, Pfundstein G, Grunert I, Kniha H, Roehling S. Dental zirconia implants up to three years in function: a retrospective clinical study and evaluation of prosthetic restorations and failures. Int J Oral Maxillofac Implants. 2013 May-Jun;28(3):896-904.

10 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. 2015 Apr 1. [Epub ahead of print].

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