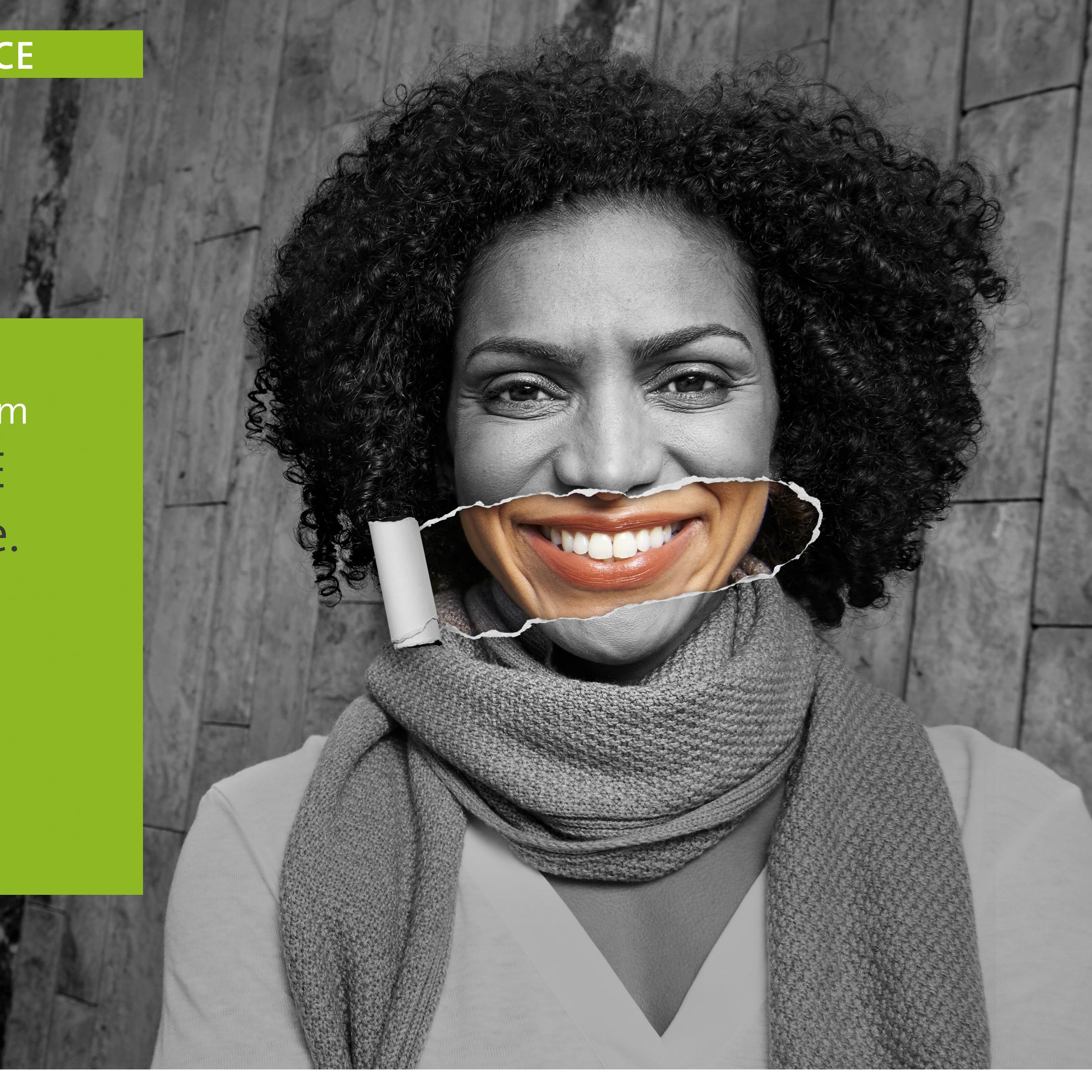
IMPLANTOLOGY CONFIDENCE

Straumann[®] PURE Ceramic Implant System Discover natural PURE white. Love your smile.

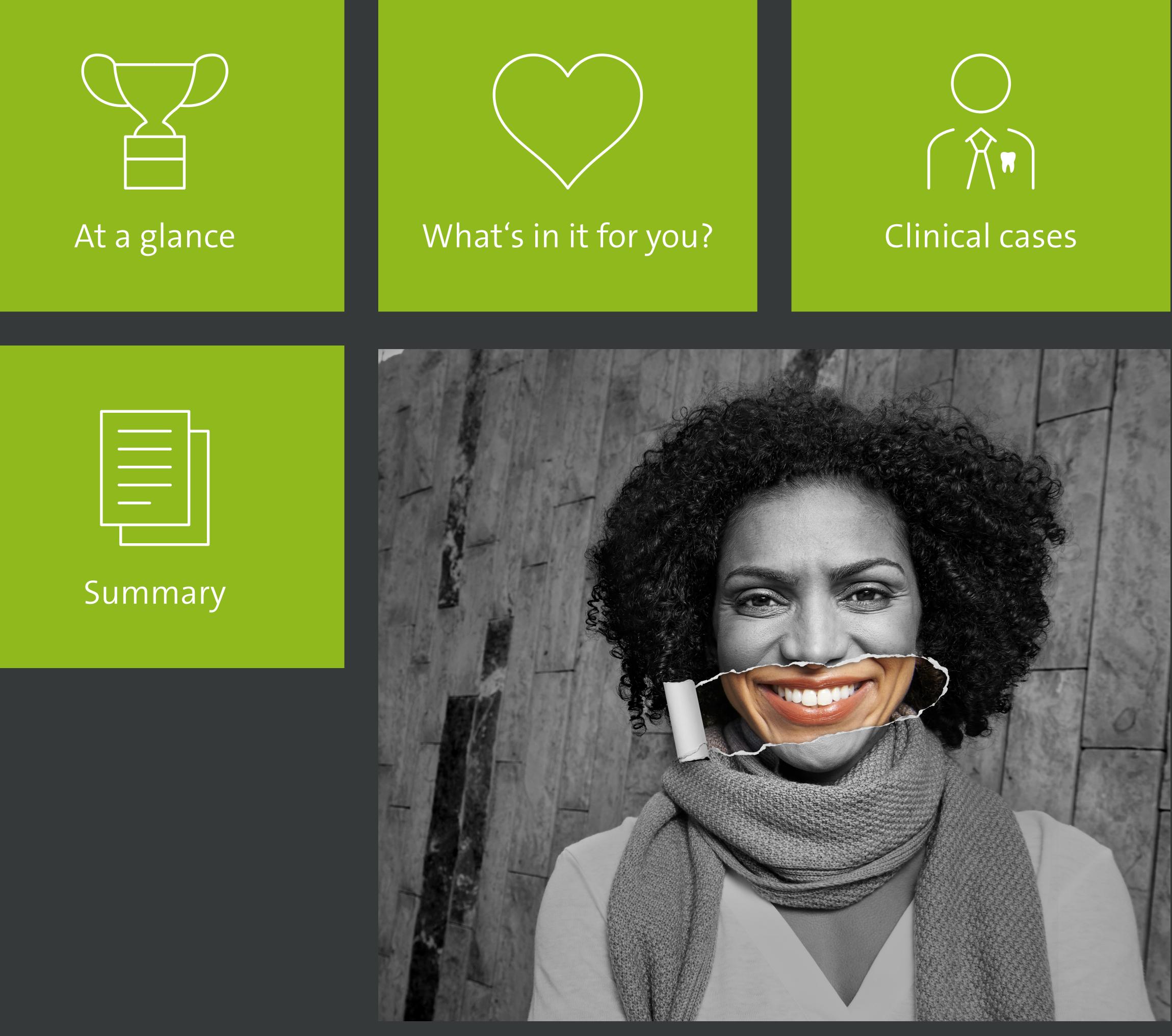








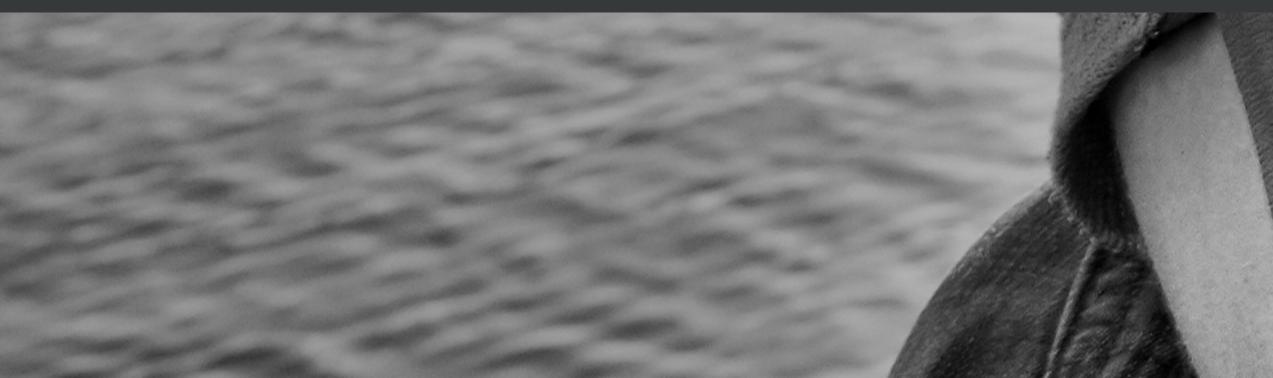
Straumann[®] PURE Ceramic Implant System Discover natural PURE white. Love your smile.

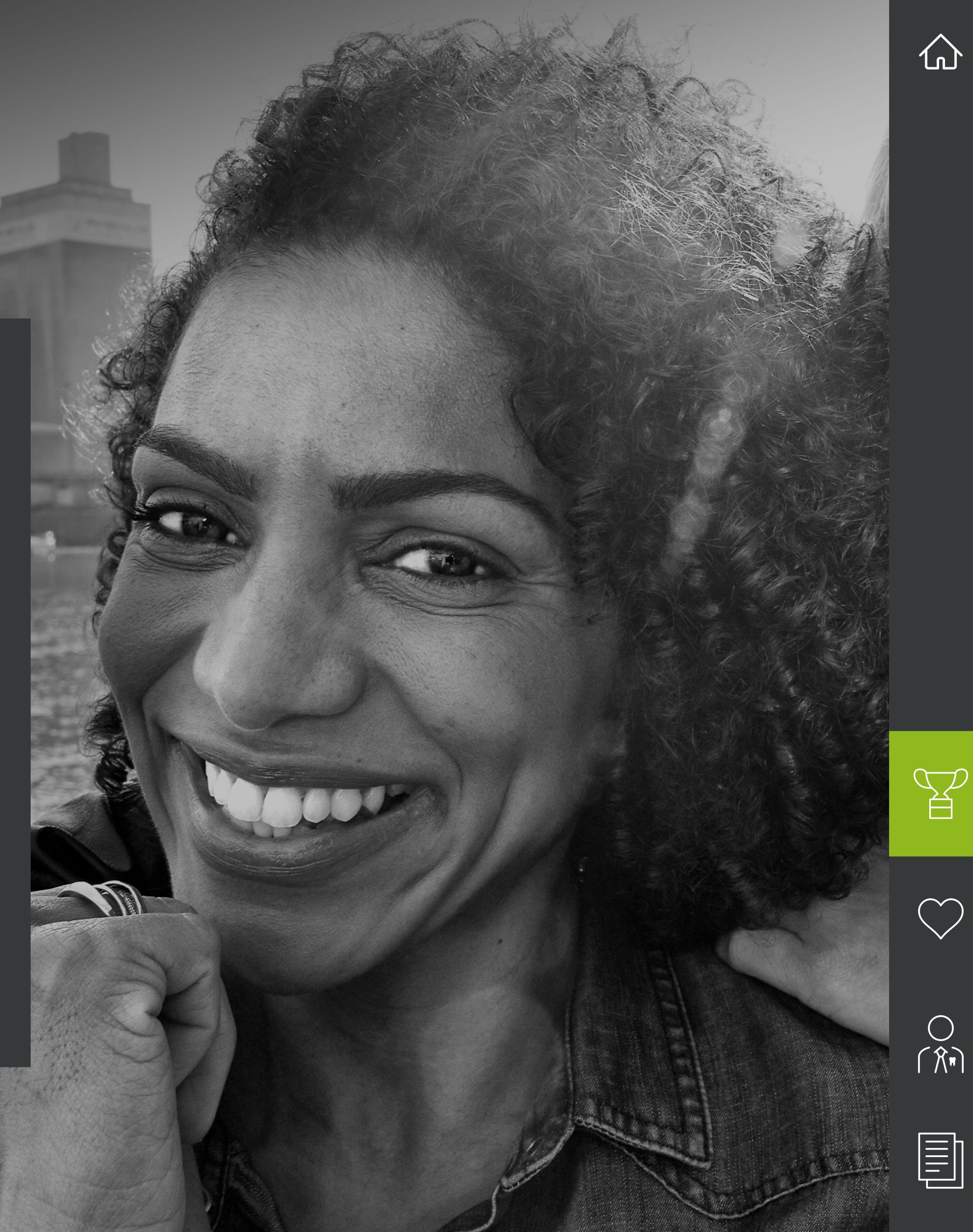




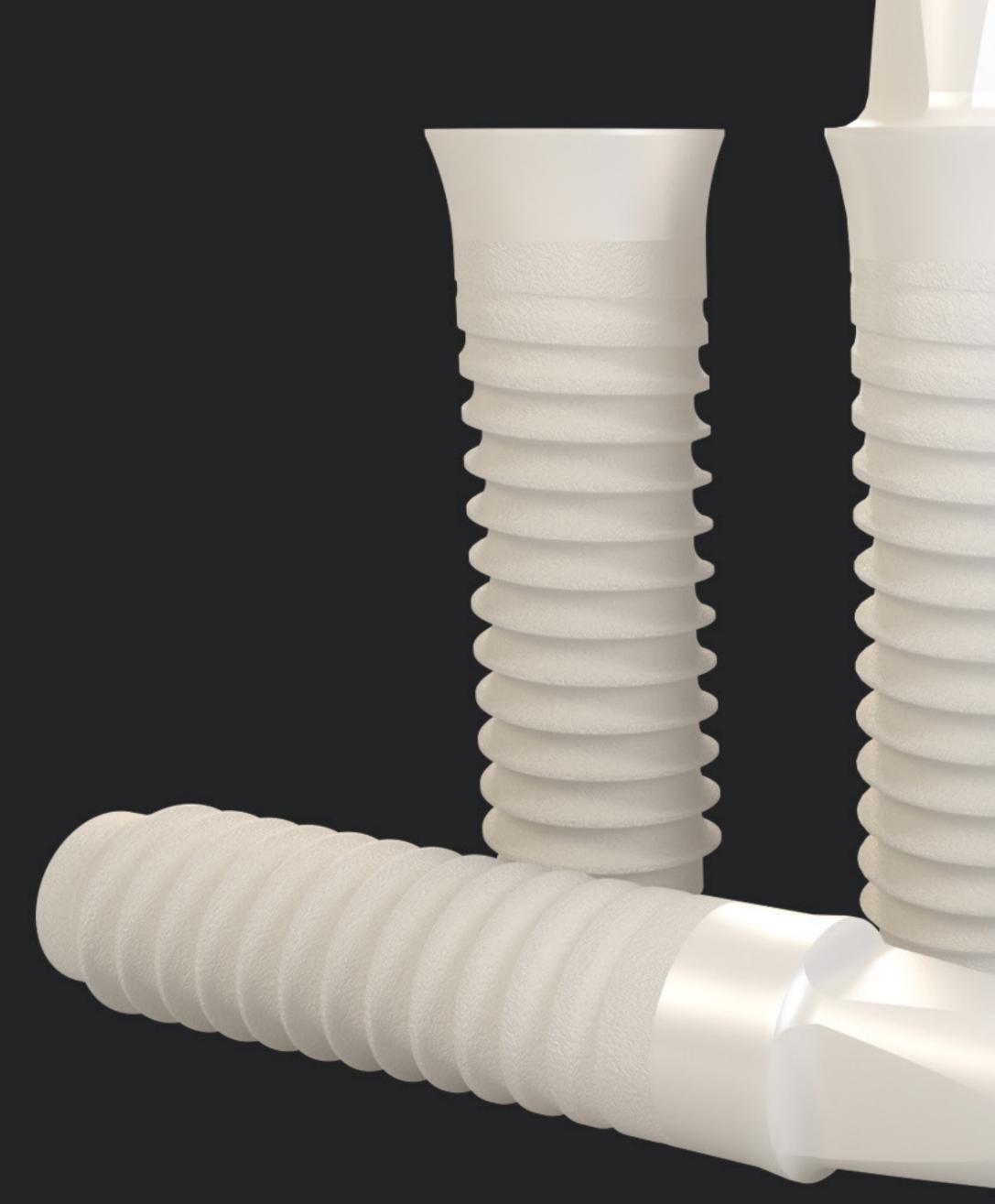
At a glance

- Choose Straumann[®] PURE Ceramic Implant System for an esthetic, natural and strong treatment
- 12 years of relentless research and development (to comply with our Swiss premium quality standards)
- Available as
 - Monotype design, endosteal diameters of 4.1 mm and 3.3 mm
 - Two-piece design, endosteal diameter of 4.1 mm





What's in it for you?



Outstanding esthetics

Outperforming quality

Exceptional surface

Flexibility

Workflow immediate custo

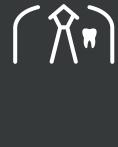
High predictability through and surgery

Confidence within a fully co

Immediate customized est

Innovation

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connected team	
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What's in it for you? Outstanding esthetics

- Ivory colored natural ceramic material
- More favorable soft tissue attachment around ceramic around natural tooth^{1,2}
- Excellent esthetic outcomes in the esthetic zone after three year follow-up³

¹ Kajiwara N, Masaki C, Mukaibo T, Kondo Y, Nakamoto T, Hosokawa R. Soft tissue biological response to zirconia and metal implant abutments compared with natural tooth: microcirculation monitoring as a novel bioindicator. Implant Dent 2015;24(1):37-41 ² Glauser R, Sailer I, Wohlwend A, Studer S, Schibli M, Schärer P. Experimental zirconia abutments for implant-supported single-tooth restorations in esthetically demanding regions: 4-year results of a prospective clinical study. Int J Prosthodont. 2004 May-Jun; 17(3): 285-90. ³ Bormann KH, Gellrich NC, Kniha H, Schild S, Weingart D, Gahlert M. A Prospective Clinical Study to Evaluate the Performance of Zirconium Di-



than around titanium, with blood circulation similar to that



Demonstration: soft tissue reaction to the Straumann[®] PURE Ceramic Implant Monotype



Clinical case with five year follow-up (Case courtesy of Dr. Gahlert)





oxide Dental Implants in Single Tooth Gaps in the Maxilla and Mandible: 3-Year Results. Publication in preparation 2017.

What's in it for you? Outperforming quality

- Made from high-performance zirconia ceramic (Y-TZP) with higher fatigue strength than grade-4 titanium implants^{4,5}
- Every single PURE Implant^{*/**} has to undergo a proof test before it leaves the Straumann[®] production facility
- Unique precautions ensure an unpreceded level of quality assurance and ultimate safety
- Excellent clinical performance with 97.5 % survival and success rate after three years**6

- * PURE Ceramic Implant (two-piece) ** PURE Ceramic Implant Monotype
- ⁴ 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. doi: 10.1111/j.1600-0501.2011.02291.x. Epub 2011 Nov 14.
- ⁵ Institut Straumann AG, Straumann[®] PURE Ceramic Implants: A 100 % proof test ensures reliable implant strength. 03/14 490.028/en/B/001. www.straumann.com.
- ⁶ Bormann KH, Gellrich NC, Kniha H, Schild S, Weingart D, Gahlert M. 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. Publication in preparation 2017.







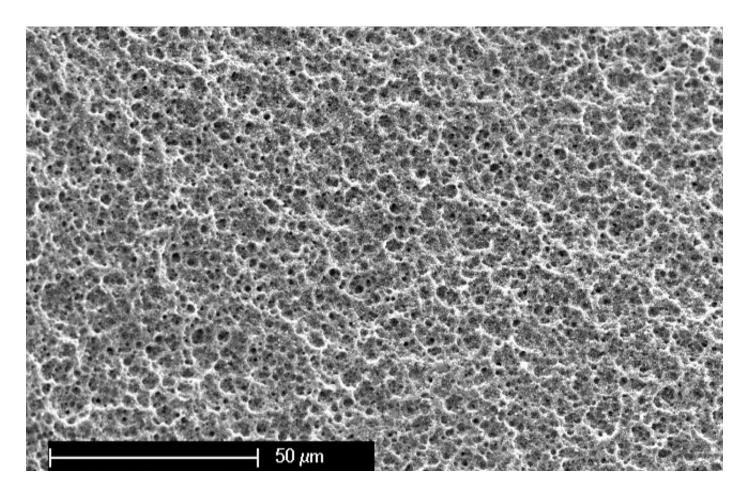






What's in it for you? Exceptional surface

- SLA®7-9



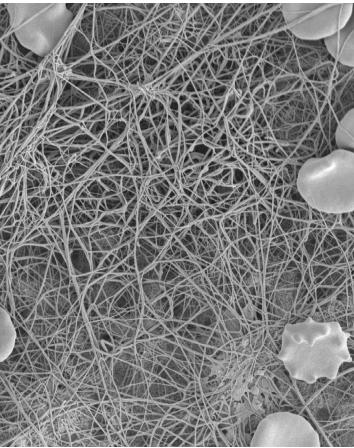
Straumann ZLA®

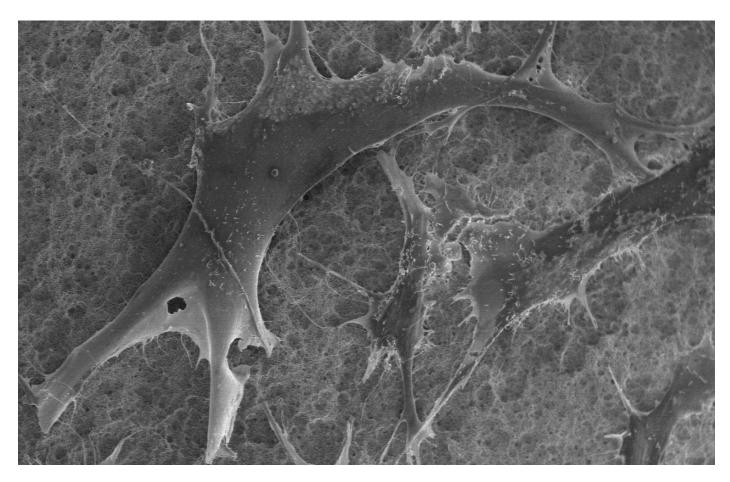
Enhanced fibrin network formation on top of the ZLA[®] surface^{*}

- * M. Rottmar et al., manuscript in preparation
- Implants Res. 2012 Oct;23(10):1210-6. doi: 10.1111/j.1600-0501.2011.02291.x. Epub 2011 Nov 14.
- Mar;23(3):281-6. doi: 10.1111/j.1600-0501.2011.02157.x.
- Clin Implant Dent Relat Res. 2010 Dec;12(4):297-305. Doi: 10.1111/j.1708-8208.2009.00168.x.
- DOI: 10.1902/jop.2016.160245

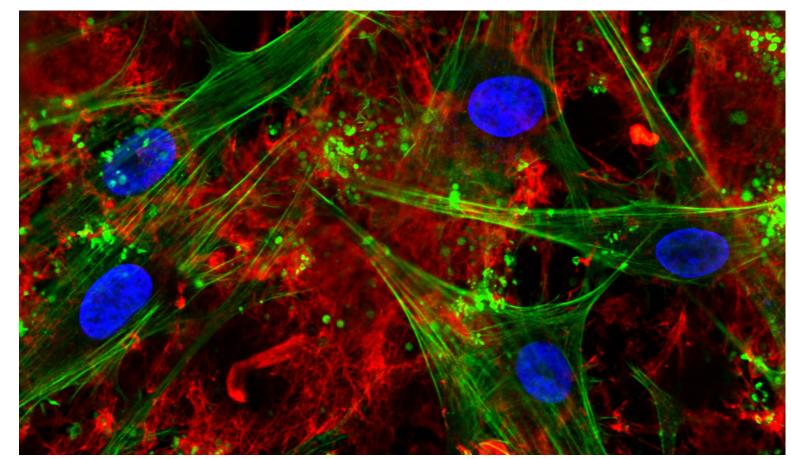
• ZLA[®], similar in macro and micro roughness to the original Straumann[®] SLA[®] surface • Revolutionary osseointegration properties: Healing time comparable to well established

• Less plaque attachment – an important factor for long-term implant success¹⁰





Bone cells growing on ZLA[®] surface (in-vitro study Empa)



7 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 8 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 9 Gahlert M1, Röhling S, Wieland M, Eichhorn S, Küchenhoff H, Kniha H A comparison study of the osseointegra-tion of zirconia and titanium dental implants. A biomechanical evaluation in the maxilla of pigs 10 Roehling S, Astasov-Frauenhoffer M, Hauser-Gerspach, Braissant O, Woelfler H, et a., In Vitro Biofilm Formation On Titanium And Zirconia Implant Surfaces, J Periodontol. 2016 Oct 7:1-16. [Epub ahead of print]

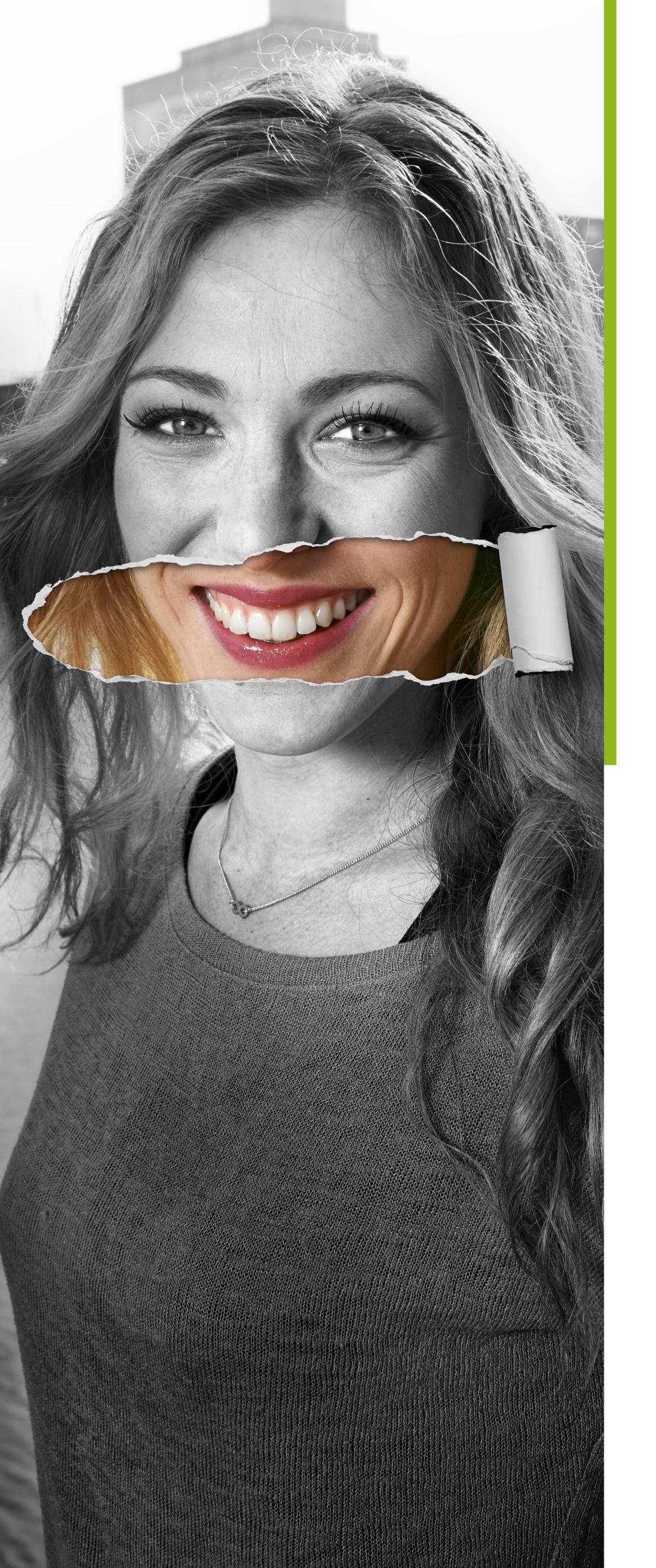
Confocal laser scanning microscopy visualizing seeded bone cells and pronounced fibrin network on the ZLA[®] surface after incubation in human whole blood. Fibrin network (red), actin cytoskeleton (green), nuclei (blue)*







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What's in it for you? Flexibility

- Choose your preferred implant shape (monotype or two-piece) and workflow (conventional or fully digital)
- Various prosthetic options available*
- 100% metal-free restoration possible**
- Proven Straumann[®] surgical protocol, no additional surgical instruments needed
- Suitable for guided surgery^{*/**} and guided implant placement*



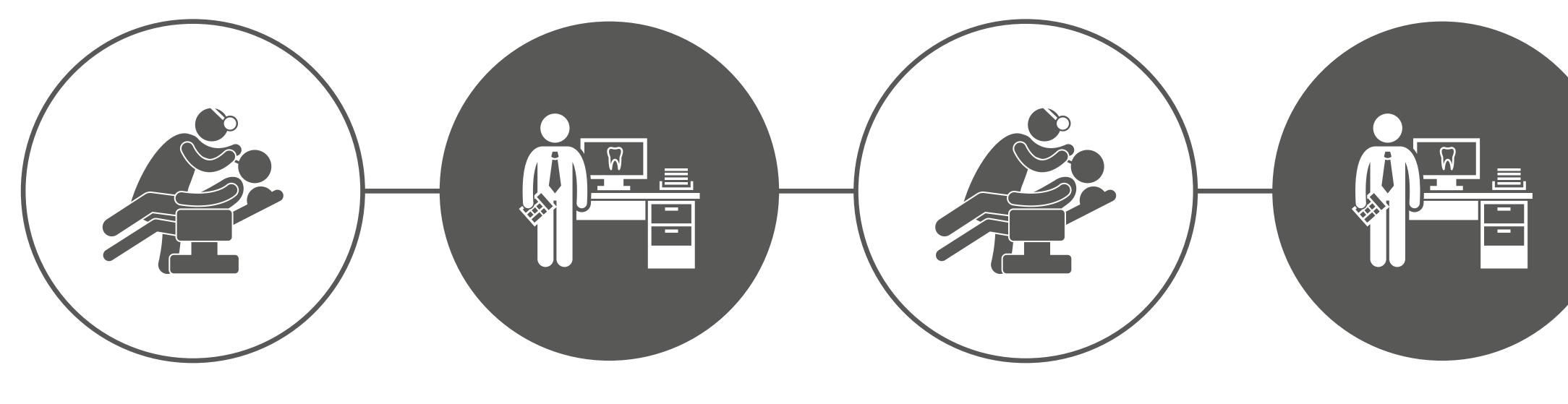
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What's in it for you? Workflow immediate customized esthetics



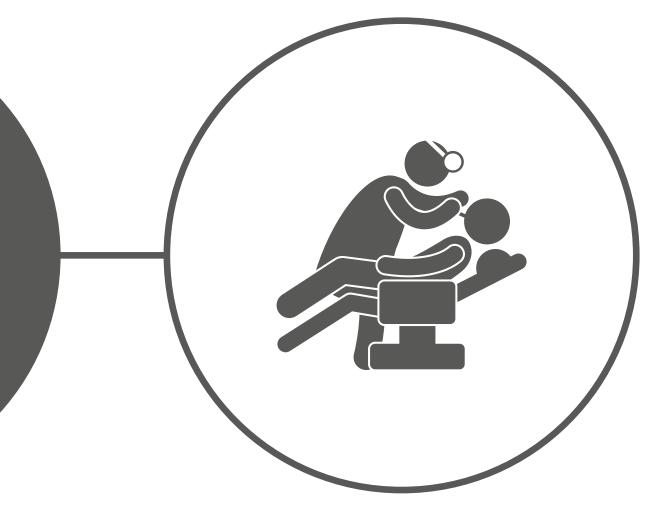
1.

CBCT without Rx template → First intraoral scan 2.

Surgical and prosthetic planning in 3D → Printing of Surgical guide and fabrication of immediate CADCAM temporization 3.

Guided surgery */** Guided implant placement* → second intraoral scan and immediate CADCAM temporization 4.

Conception of CADCAM final prosthetic rehabilitation



5.

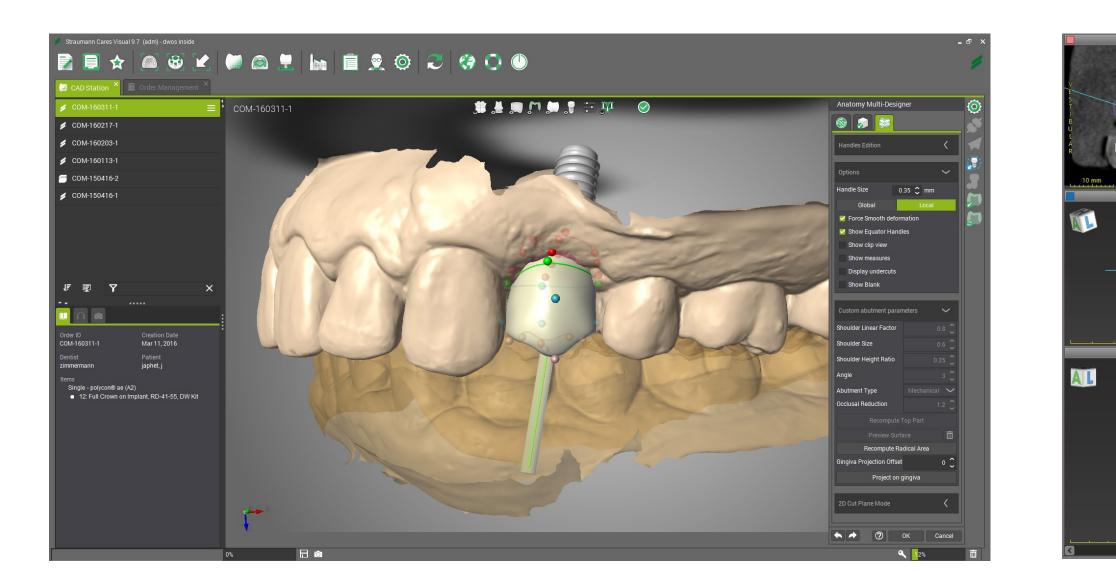
CADCAM final prosthetic rehabilitation

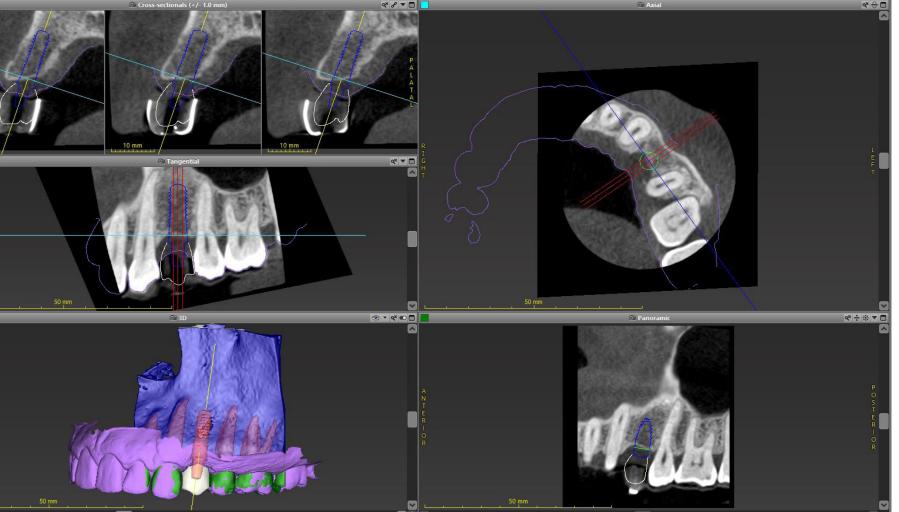


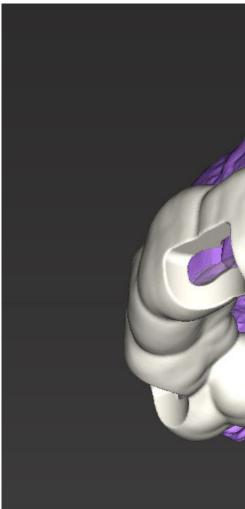


What's in it for you? High predictability through precise diagnostic, planning and surgery

- Achieve predictable results
- Detailed 3D diagnostics
- Reduce uncertainties
- Even in advanced surgical indications







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What's in it for you? Confidence within a fully connected team

- Real-time collaboration with DWOS Synergy[™]
- Transfer your coDiagnostiX[®] implant planning to CARES[®] Visual
- Receive the restorative plan from the lab technician
- Digital case sharing by caseXchange[™]
- Case-sharing with other coDiagnostiX[®] users via caseXchange[™]









What's in it for you? Immediate customized esthetics

- Restore your patient's confidence





Straumann[®] CARES[®] Visual: **Restorative planning** software

• Have your customized provisional at the time of implant placement • Ensure a highly esthetic gingiva conditioning and favorable soft tissue formation





coDiagnostiX[®]: surgical planning software

coDiagnostiX[®] for iPad: treatment plan visualization

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Preferably ceramic implants



Preferably metallic implants

What's in it for you? Innovation

- Patients would prefer a ceramic implant over a titanium implant even when this means higher treatment costs and longer treatment time¹¹
- New designed inner connection Abutments especially developed for the Straumann[®] PURE Ceramic Implant







Clinical Cases





Richard Zimmermann

UT School of Dentistry San Antonio, Texas

Stefanie Seitz

UT School of Dentistry San Antonio, Texas





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Summary

- Offer your patients a natural and highly esthetic solution
- Benefit from favorable soft tissue attachment around zirconia implants
- Ensure reliable and correct implant placement
- Collaborate in a fully digital team
- Have the provisional at the time of implant placement
- Differentiate your practice with innovative solutions

