Patent

SYMBIONIC TEETH

PATENT™ SYMBIONIC TEETH
A NEW LEVEL OF EXCELLENCE

DISRUPTIVE TECHNOLOGY

Thanks to Symbionic Teeth, tooth replacement was taken to an entirely new level of excellence.

A NEW PARADIGM

Peri-implantitis will no longer be tolerated. Over a 10-year monitoring period, mucositis is reduced to 10% in all patients.

SCIENTIFICALLY PROVEN CLINICALLY VALIDATED

Two peer-reviewed long-term studies have provided scientific evidence of the groundbreaking success of Patent™ Symbionic Teeth.

THE NEXT GENERATION IN TOOTH REPLACEMENT

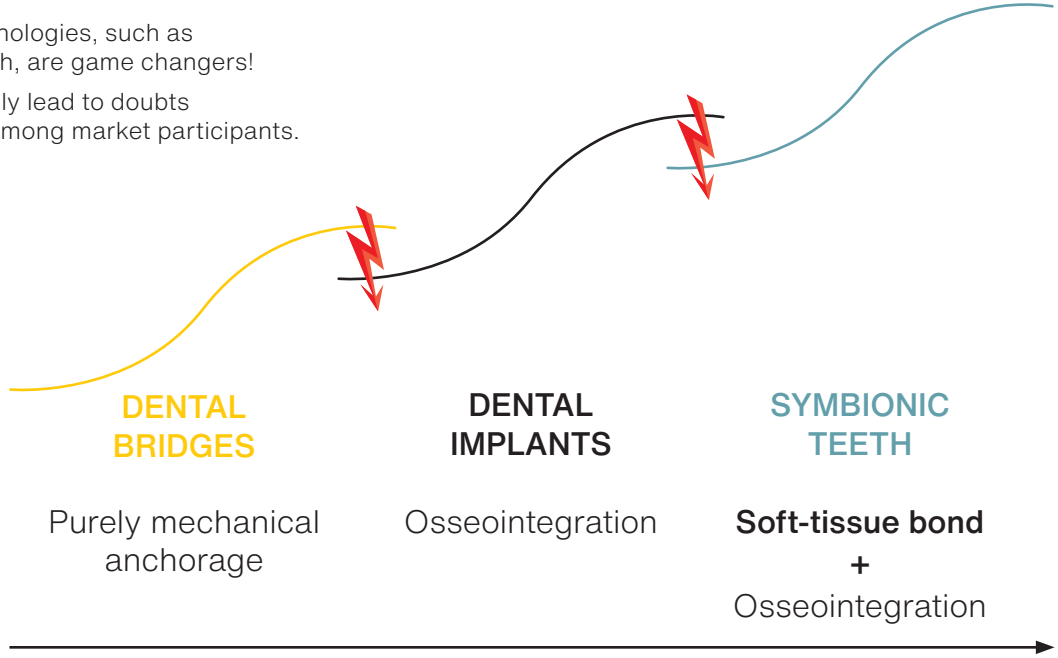
PATENT™ SYMBIONIC TEETH

For the first time in history of tooth replacement, a soft-tissue bond has been scientifically proven. The result is groundbreaking: a robust mucosal defense barrier – similar to that of natural teeth.

This ensures long-term tissue health and exceptionally stable esthetic outcomes.

Disruptive technologies, such as Symbionic Teeth, are game changers!

They may initially lead to doubts und concerns among market participants.



Conventional methods for tooth replacement are confronted with the ultimate challenge in dentistry: **peri-implantitis**.

A strong soft-tissue bond **protects the hard and soft tissues** from the infiltration of bacteria and downwards migration of plaque, thereby **preventing inflammatory complications**, such as peri-implantitis.

As the only scientifically and clinically validated solution, Patent ™ Symbionic Teeth have convincingly proven to be the n**ext generation in tooth replacement**.

SCIENTIFICALLY PROVEN
CLINICALLY VALIDATED

EXPERT STATEMENTS

made at the Zero Peri-Implantitis symposium, EuroPerio11 Vienna, by:

- Prof. Anton Sculean
- Prof. Gil Alcoforado
- Dr. Roland Glauser
- Prof. Andrea Pilloni

“Treatment of peri-implantitis is extremely difficult and unpredictable. That‘s why we must try to prevent it!”

“At Patent™, we see an unprecedented bond in the soft tissue area! An adhesion of soft tissue to a synthetic surface.”

“The combination of the tissue-level concept and a unique transmucosal surface topography is the key to lasting success.”

„With Patent™, we don‘t see typical pockets of 5 mm or more, but rather shallow probing depths of no more than 3mm – comparable to healthy natural teeth!“

Dr. Roland Glauser
Cosmodent – Zahnärzte am Bahnhofplatz Zürich (CH)

Immediately after insertion

5 days after insertion

Dr. Federico Avesani
Studio Avesani
Verona (IT)

4 months after insertion

1 year after insertion

Prof. Jürgen Becker
Heinrich Heine University Düsseldorf (DE)

Situation after prosthetic restoration

16 months after prosthetic restoration

Dr. Sebastian Horvath
Zahnmedizin und Kieferorthopädie Jestetten (DE)

3 months after insertion

6 years after insertion

INSPIRED BY NATURE

NATURAL TOOTH

SYMBIONIC TOOTH

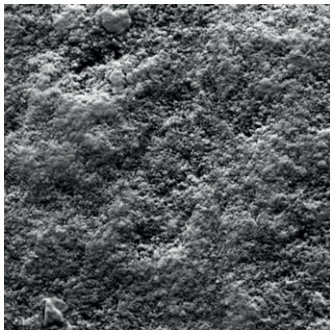
A MUCOSAL DEFENSE BARRIER – SIMILAR TO NATURAL TEETH

The surface characteristics – closest to nature – facilitate the formation of a bond with soft tissue, establishing the

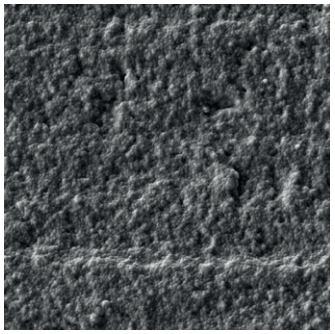
critical mucosal defense barrier required for long-term tissue health and stable esthetic results.

Demonstrated for the first time with a tooth replacement solution:

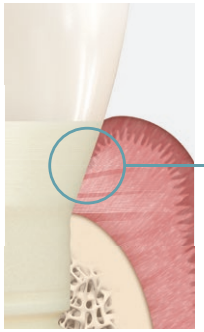
A biomechanical bond between soft tissue and the transmucosal part of the Symbionic Tooth.

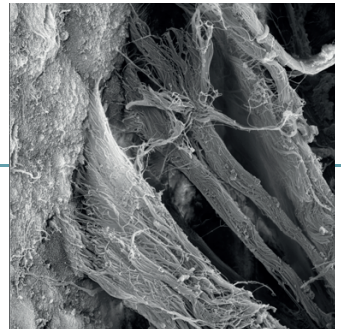


Human enamel

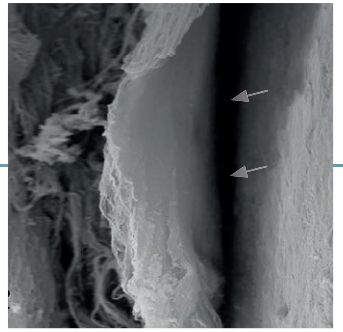


Patent™ mucophilic surface

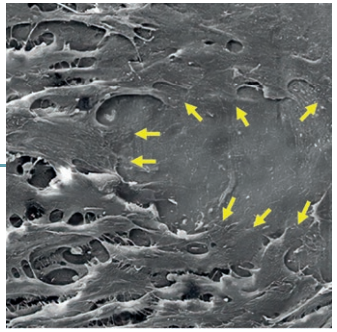




Human teeth: periodontal attachment



Dental implants: fragile adhesion



Patent™ Symbionic Teeth: soft-tissue bond

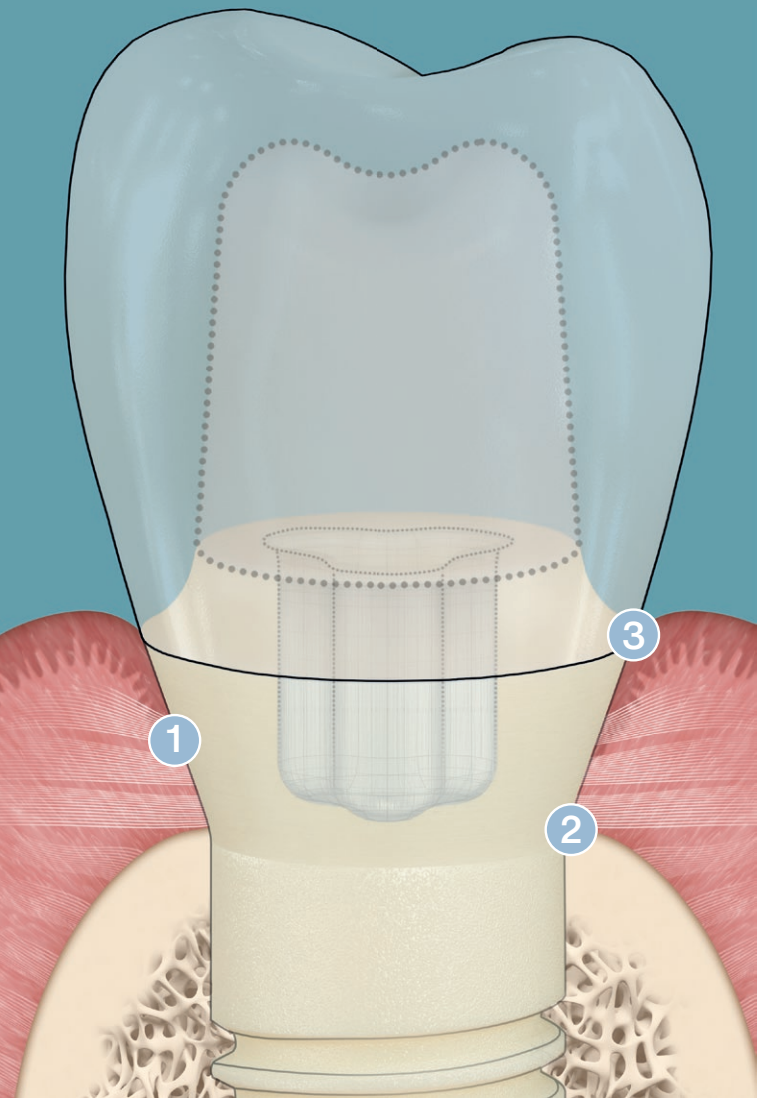
PATENT™ BIOXIDE-S

Bioxide-S is a polycrystalline oxide material whose microstructure, phase stability, and color characteristics are specifically defined through a finely tuned doping with lanthanides and other stabilizing oxides.

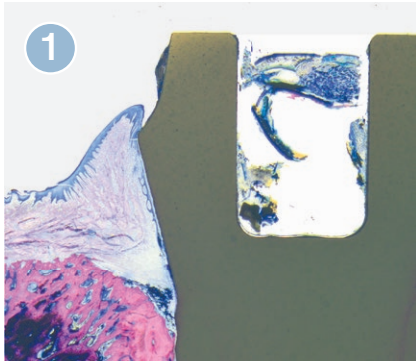
PATENT™ MANUFACTURING PROCESS

The unique composition of Bioxide-S, proprietary to Patent Medical, provides the essential substrate for the multi-patented manufacturing process, allowing for precisely controlled surface topography and roughness.

DESIGNED FOR PERMANENT DENTAL HEALTH

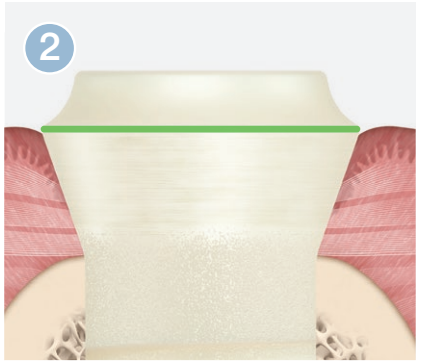


THE COMBINATION OF THREE UNIQUE STRENGTHS LEAD TO PERMANENT DENTAL HEALTH



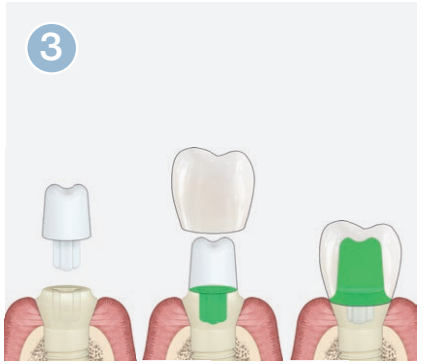
MUCOSAL DEFENSE BARRIER

- Unique epithelial cell bonding based on the Patent™ surface
- This soft-tissue bond acts as a defense barrier against the downward migration of plaque and the penetration of bacteria into the tissues



TRANSMUCOSAL DESIGN

- Patent™ Symbionic Teeth have no gaps close to the crestal bone level or within the soft tissue, effectively preserving tissue integrity
- Avoiding any transmucosal components prevents repeated irritation of the soft tissue



SEALED CONNECTIONS

- The Patent™ Glass Fiber Post is cemented into the internal connection, leaving no space for bacterial colonization
- By cementing a crown that completely surrounds the post and sits on the shoulder of the symbionic tooth, there are no gaps bacteria can invade

PERMANENT DENTAL HEALTH

In a peer-reviewed long-term study, conducted by the University of Düsseldorf, Patent™ Symbionic Teeth showed the following unprecedented results after 9 years:

- **Average mucosal recession: 0.1 mm (±0.2 mm)**
- **Average probing depth: 3.0 mm (±0.6 mm)**
- **No peri-implantitis**

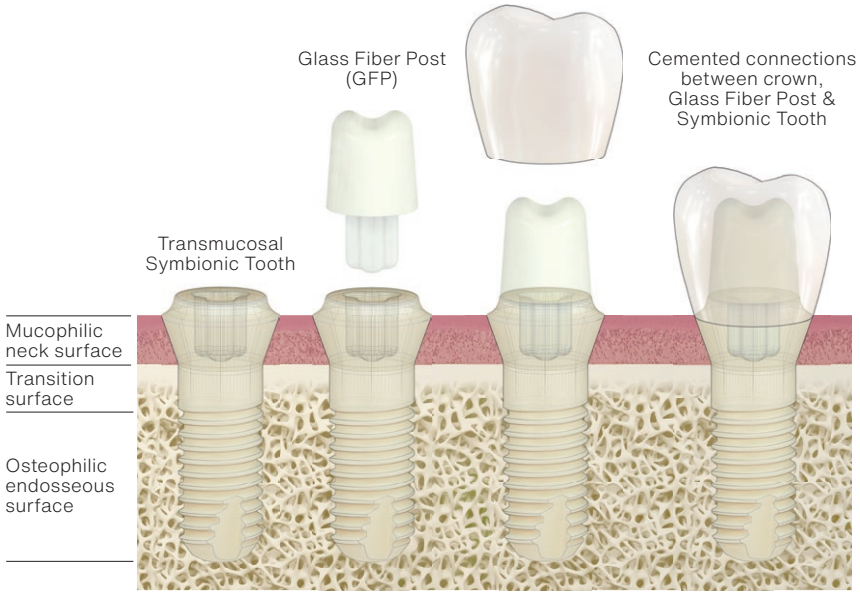
Left: Photo of a Patent™ Symbionic Tooth in a high-risk patient after 4.5 years: Shallow probing depth, comparable to a healthy natural tooth (≤3 mm)

PATENT™ SYMBIONIC TEETH

THE PATENT™ SYMBIONIC TEETH SYSTEM

The Patent™ Symbionic Teeth System was developed in 2004 in response to the increasing prevalence of peri-implant diseases associated with conventional implant systems.

With 20 years of successful use in day-to-day clinical practice, Patent™ Symbionic Teeth are recognized for their proven track record in delivering reliable, long-term outcomes, preventing peri-implantitis, and ensuring permanent dental health.

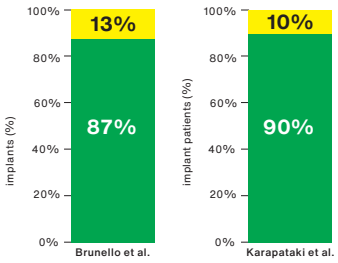


PATENT™ SYMBIONIC TEETH

SCIENTIFICALLY PROVEN CLINICALLY VALIDATED

Two long-term studies have provided scientific evidence of the groundbreaking success of Patent™ Symbionic Teeth.

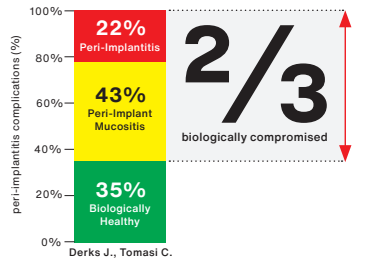
Demonstrating that Patent™ Symbionic Teeth work in real-world clinical settings, we bridge scientifically-backed approaches with predictable results.



Two independent long-term studies on Patent™ Symbionic Teeth:

- 0% peri-implantitis
- 10-13% mucositis

DENTAL IMPLANTS



Large-scale systematic review on peri-implant diseases:

- 22% peri-implantitis
- 43% of patients with mucositis and jeopardized esthetics

PATENT™ SYMBIONIC TEETH ENSURE LONG-TERM ECONOMIC SUCCESS FOR DENTIST

Thanks to Patent™ Symbionic Teeth, tooth replacement was taken to an entirely new level of excellence.

Patent™ Symbionic Teeth are designed for permenant dental health and unrivaled aesthetic results – and will reliably bring back well-being to your patients!

Higher customer satisfaction increases your referral rates. Minimized side effects and therefore fewer revisions increase your capacity for new patients.

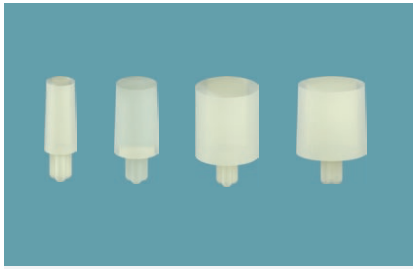
Become one of the selected partners of Patent™ Symbionic Teeth and benefit from a unique market position!

PATENT™ STANDARD SYMBIONIC TEETH

Available in different lengths and diameters, Patent™ Standard Symbionic Teeth ensure ease of use, long-term performance and maximum prosthetic flexibility across all indications.

PATENT™ INDIVIDUAL SYMBIONIC TEETH

Dentists can customize Patent™ Symbionic Teeth to the unique anatomical conditions of their tooth loss patients, thereby addressing individual esthetic challenges optimally.



PATENT™ GLASS FIBER POST

The fully customizable, dentin-like glass fiber post attenuates occlusal forces, maximizing long-term performance of Patent™ Symbionic Teeth.

WE MAKE TOOTH REPLACEMENT BETTER

Thanks to a long research history and continuous innovation, Patent™ is leading the fight against peri-implant diseases and elevating tooth replacement to the next level.

Symbionic Teeth mark a revolutionary advancement in reconstructive dentistry – offering scientifically proven long-term success and esthetic outcomes that remain stable over time.

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