

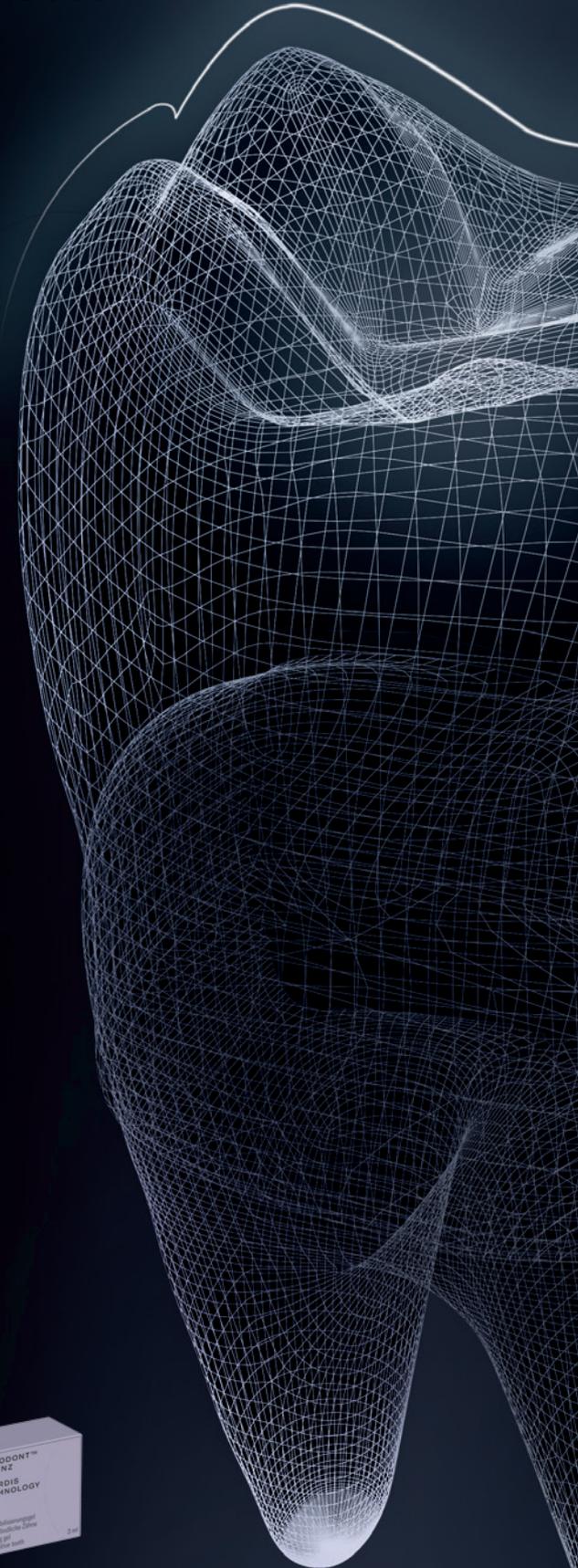
# V VARDIS PROFESSIONAL

SWITZERLAND

CREATING TEETH THE WAY NATURE DOES IS THE FUTURE

TECNOLOGIE V VARDIS

## Biomimetic technologies for tooth preservation



# A disruptive technology with a variety of applications

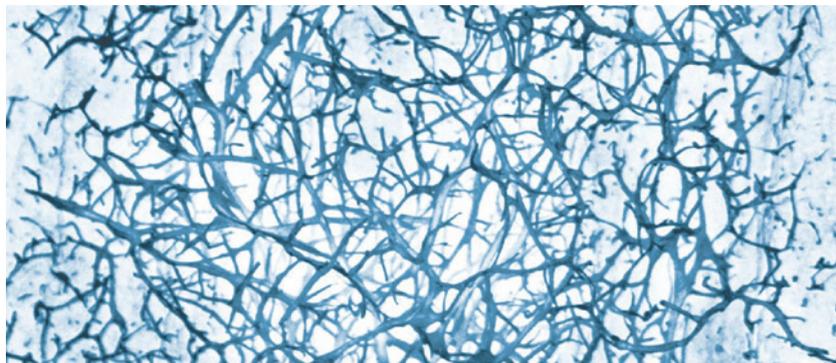
## vVARDIS TECHNOLOGY: A BIOMIMETIC

During odontogenesis, the enamel matrix facilitates nucleation and the ordered growth of hydroxyapatite. The matrix is degraded in the final steps of enamel maturation.

The vVARDIS TECHNOLOGY is modelled on the enamel matrix. Scientists from the University of Leeds, UK developed a self-assembling peptide (SAP), which is the base of the vVARDIS TECHNOLOGY. This peptide has a high affinity to hydroxyapatite.

The clinically proven, patented and prize-winning vVARDIS TECHNOLOGY has multiple uses. Within the initial caries lesion, it can self-assemble into a three dimensional biomatrix, enabling the regeneration of enamel by mimicking natural biological mineralization process.

Formulated into a gel, the vVARDIS TECHNOLOGY three-dimensional matrix has a high affinity to enamel and dentine. It presents a stable protection barrier on the tooth, and acts – together with fluoride and calcium ions – as a protection against acids and as a desensitizer.



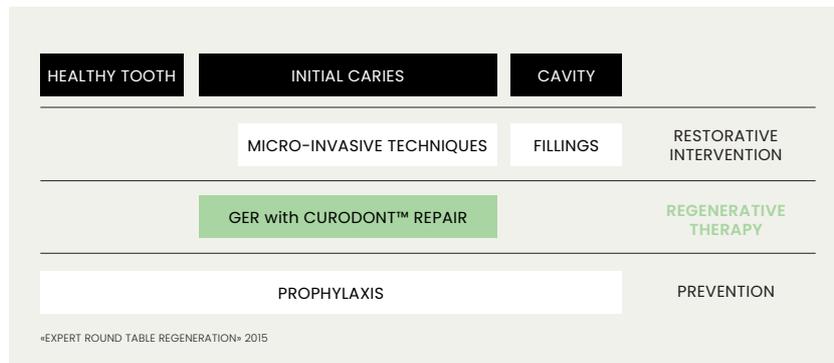
P11-4 nano-fibres (Curodont™) x 120'000.  
Picture: A. Aggeli and S. Maude, Leeds

## CURODONT™ REPAIR

# Guided Enamel Regeneration for initial caries treatment

## EASY, SAFE AND PAIN FREE

Guided Enamel Regeneration (GER) is the regenerative treatment of initial caries lesions (tooth decay). GER is the as yet untapped link between prevention and invasive restorative treatments. It enables effective therapy of initial caries, in-depth regeneration of the enamel and leads to the need for fewer restorations. CURODONT™ REPAIR offers all your patients a safe, easy and pain-free solution.



Fluoride varnishes stop approximately 35% of caries lesions after 6 months. CURODONT™ REPAIR stops and regenerates between 80% and 100% of early caries lesions in the same period.<sup>1,2</sup>

CURODONT™ REPAIR is applied with an easy-to-use applicator onto the cleaned surface of the caries lesion. It forms a biomatrix within the lesion. This biomatrix guides remineralization down to the bottom of the lesion. Calcium and phosphate ions from saliva are attracted to the biomatrix and new hydroxyapatite crystals are formed in the following weeks. The enamel layer is regenerated and the natural tooth is preserved.



Current pack design



New pack design as of March 2022

<sup>1</sup> Alkilzy M. et al. (2017), "Self-assembling Peptide P11-4 and Fluoride for Regenerating Enamel", Journal of Dental Research 1-7.

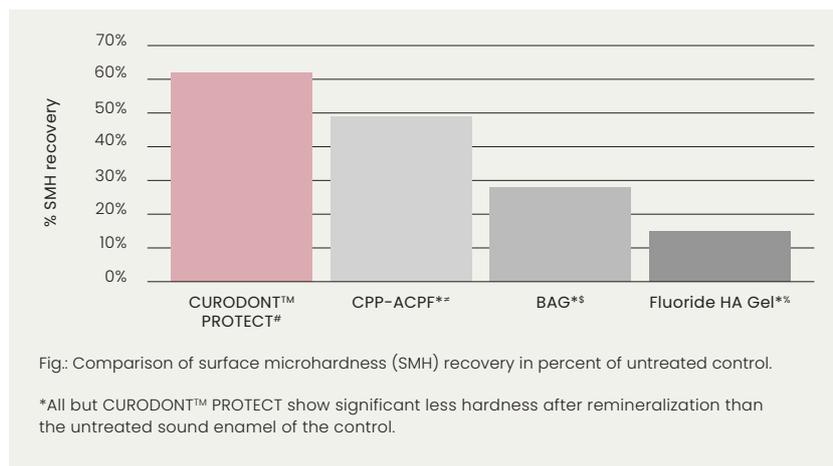
<sup>2</sup> Doberdoli D. et al. (2020), "Randomized Clinical Trial investigating Self-Assembling Peptide P11-4 for Treatment of Early Occlusal Caries", Scientific Reports 10:4195.

## CURODONT™ PROTECT

# Protection from caries and erosion in one

## THE IDEAL FINISH FOR A PROFESSIONAL CLEANING

CURODONT™ PROTECT is a remineralizing tooth gel with the vVARDIS biomatrix technology (SAPM). In combination with calcium, phosphate and fluoride ions, it forms a stable protective layer on the tooth. This mineral-rich layer provides effective and long-lasting protection of enamel and dentine from bacterial and food acids. Thus, it counters the onset of caries, improves enamel hardness and protects the tooth from erosion. It can also stop white spots around orthodontic brackets, as such being an ideal preventive solution for orthodontic patients.



CURODONT™ PROTECT helps prevent the formation of early caries in the enamel around fixed orthodontic appliances, remineralizes the enamel and restores its hardness better than fluoride varnish.<sup>3,4</sup>

CURODONT™ PROTECT can be directly applied onto the tooth with a finger or with the help of a polishing cup. Simple handling, excellent protection and a unique smooth-tooth sensation makes CURODONT™ PROTECT the perfect finishing touch following professional dental cleaning or a bleaching session.



Current pack design



New pack design as of March 2022

<sup>3</sup> Jablonski-Momeni A, Nothelfer R, Morawietz M, Kiesow A, Korbmacher-Steiner H. Impact of self-assembling peptides in remineralisation of artificial early enamel lesions adjacent to orthodontic brackets. Sci Rep. 2020 Sep 15;10(1):15132

<sup>4</sup> Soares R, De Ataíde IN, Fernandes M, Lambor R. Assessment of Enamel Remineralisation After Treatment with Four Different Remineralising Agents: A Scanning Electron Microscopy (SEM) Study. J Clin Diagn Res. 2017 Apr;11(4):ZC136-ZC141

# Self-Assembling Peptide P11-4 (CURODONT™ PROTECT)

\*\* Casein Phosphopeptide-Amorphous Calcium Phosphate Fluoride (CPP ACPF - GC Tooth Mousse Plus; GC Corporation, Tokyo, Japan)

\$ Bioactive Glass (BAG- NovaMin (SHY-NM, Group Pharmaceuticals Ltd, India))

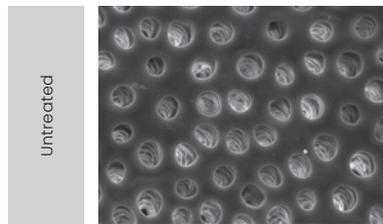
% Fluoride enhanced Hydroxyapatite Gel (Remin-Pro (VOCO-GmbH, Germany))

CURODONT™ D'SENZ

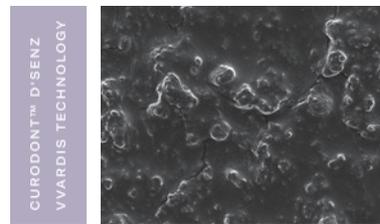
# Desensitizes and protects hypersensitive teeth

## FAST ACTION

CURODONT™ D'SENZ is a desensitizing tooth gel. The biomatrix, based on the vVARDIS TECHNOLOGY, swiftly forms a stable protective barrier on the exposed dentine. It takes 2 minutes for the open dentinal tubules to be effectively occluded inhibiting the transmission pain-inducing thermal and contact stimuli.



Exposed dentine with open tubules



Dentine with CURODONT™ D'SENZ – a stable protective barrier has formed after a single application.

CURODONT™ D'SENZ gives fast and easy recovery from sensitive teeth helping to effectively reduce pain for over 81% of all users.<sup>5</sup> An intensive cure ensures long-lasting protection.<sup>5</sup>

The fast desensitization and simple application makes CURODONT™ D'SENZ the ideal product for use before professional dental cleaning, ensuring a more pleasant treatment for both patient and hygienist. An intensive and repetitive self-treatment by the patient leads to long-lasting desensitization.



Current pack design



New pack design as of March 2022

<sup>5</sup> Schlee, M., Rathe, F., Bommer, C., Bröseler, F., & Kind, L. (2018). Self-assembling peptide matrix for treatment of dentin hypersensitivity: A randomized controlled clinical trial. *Journal of Periodontology*, 89(6), 653–660.

# Indications

## CURODONT™ REPAIR

Guided Enamel Regeneration for initial caries

	CURODONT™ REPAIR VWARDIS TECHNOLOGY
	CARIES THERAPY
PROXIMAL CARIES D1, D2, (D3)	●
OCCLUSAL CARIES	●
BUCCAL CARIES	●
PRIMARY TOOTH CARIES	●

Application:

Only use CURODONT™ REPAIR after dental hygiene cleaning.

- Removal of the organic pellicle with sodium hypochlorite 1–3 %, 20 sec.
- Etching with 35–37% phosphoric acid gel, 20 sec.
- Rinse and air dry
- Application of CURODONT™ REPAIR on the carious site, 5 min.

## CURODONT™ PROTECT | CURODONT™ D'SENZ

Effective Protection and Desensitization

	CURODONT™ PROTECT VWARDIS TECHNOLOGY	CURODONT™ D'SENZ VWARDIS TECHNOLOGY		
CARIES PREVENTION	APPLICATION	APPLICATION		
AFTER DENTAL HYGIENE CLEANING	●			
HIGH RISK CARIES PATIENTS	ONCE OR TWICE PER WEEK			
DURING ORTHODONTIC TREATMENT	ONCE OR TWICE PER WEEK			
INVISALIGN THERAPY	ONCE OR TWICE PER WEEK			
XEROSTOMIA	ONCE OR TWICE PER WEEK			
EROSION	REGULARLY - DEPENDING ON SEVERITY			
DENTINE HYPERSENSITIVITY		ONE TO MULTIPLE USE DAILY UNTIL DESENSITISATION SUCCESSFUL		
EXPOSED ROOTS				
BEFORE PROFESSIONAL CLEANING		●		
BLEACHING				
IN-OFFICE BLEACHING, HYPERSENSITIVITY		AFTER BLEACHING		
IN-OFFICE BLEACHING, EROSION PROTECTION	AFTER EACH BLEACHING			
HOME BLEACHING, HYPERSENSITIVITY		ON THE PAINFUL SITE		
IN OFFICE				
BEFORE THE VISIT	TREATMENT	ORTHODONTIC	PROPHYLACTIC	AT HOME
CURODONT™ D'SENZ	CURODONT™ REPAIR	CURODONT™ PROTECT	CURODONT™ PROTECT	CURODONT™ PROTECT
			CURODONT™ D'SENZ	CURODONT™ D'SENZ

Are you interested? Learn more on [professional.vvardis.com](https://professional.vvardis.com)

# vVARDIS Whitening Serum

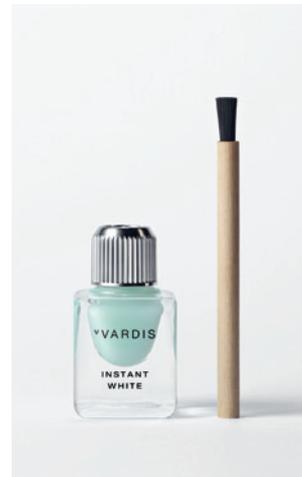
## A REVOLUTIONARY FORMULA FOR TEETH WHITENING AND PROTECTION

The vVARDIS Whitening Serum is a revolutionary combination of protection and whitening: the first intensive whitening treatment that is good for teeth and easy to use at home. Its patented WX™ formula, combining the original biomimetic vVARDIS technology (SAPM) with Hydroxyapatite (HA), simultaneously protects and whitens teeth, porcelain crowns and veneers - without peroxide and without causing sensitivity.

The combination of SAPM + HA showed significant and visible whitening after one application, increasing throughout the first week of home application and remaining stable for 30 days.<sup>6</sup>

## UNIQUE BENEFITS

- Effective and gentle whitening without attacking the enamel
- Does not cause sensitivity or gum irritation
- Easy and fast application (3 minutes)
- Makes white and yellow spots less visible
- Visible brightening of restorations, porcelain crowns and veneers
- Protects against caries and erosion
- Helps reduce teeth sensitivity
- Suitable also for teenagers
- Vegan, clean, sustainable



## HOW TO USE

For instructions on how to use it, please visit [vvardis.com](https://vvardis.com):



<sup>6</sup>Bommer C, Flessa HP, Xu X, Kunzelmann KH. Hydroxyapatite and self-assembling peptide matrix for non-oxidizing tooth whitening. J Clin Dent 2018,29(2):57-63

