

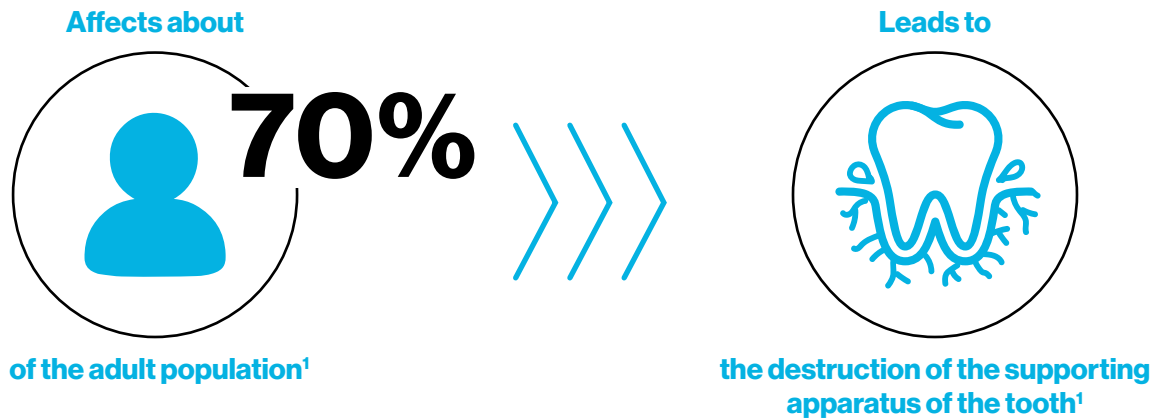
**Sterify Gel**

# Expanding the Boundaries of Care and Protection

Meet the reduced bacterial  
contamination solution to support  
the healing process in the treatment  
of periodontal disease



Periodontitis is a chronic multifactorial disease that can lead to the destruction of the structures supporting the teeth.



When treating periodontal disease, **Scaling & Root Planing (SRP)** might currently require the addition of local antibiotic or local antibacterial agents<sup>1</sup>

**Sterify Gel** is a medical device that offers a new approach to periodontal care.



Application Video

**Mucoadhesive polymeric hydrogel in a pre-filled syringe for the treatment of periodontal disease<sup>2</sup>**

**Polyvinyl polymers (10%):**  
Physical occluding action

**Nisin:**  
Preservative

**Hydroxytyrosol:**  
Visco-modulator

**Sterify Gel\***

**Magnesium Ascorbyl Phosphate:**  
Gamma-protector



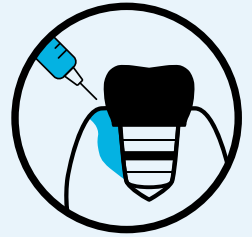
\*Class III sterile, single-use, single-patient Medical Device, MDR Certified (CE 0426).<sup>2</sup>

Graphic elaboration from ref. 2.

**Sterify Gel** provides a unique solution in the treatment of periodontal disease by preventing bacterial contamination and supporting tissue healing.



**Sterify Gel** easily penetrates into the deepest and **hard-to-reach areas of periodontal and peri-implant pockets**, adhering to the gingival tissue, alveolar bone or root and dental implant surfaces, **providing complete coverage of the pockets<sup>2</sup>**



The occluding action at the level of the periodontal and peri-implant gingival pockets **creates an environment unsuitable for bacterial growth and supporting the tissue healing process<sup>2</sup>**

## **Sterify Gel** The main benefits



**Reduction of bacterial contamination**  
thanks to its occluding action



**Support to tissue healing**  
with significant and proven constant improvement of pocket depth



**No antibiotics and no antiseptics**  
but simultaneously acts as broad-spectrum antibacterial barrier, without generating resistance



**No animal-derived components**



**Stable at room temperature**  
with no need to manage the cold chain



**Easy to use**



# Clinical Benefits

**Sterify Gel** and SRP demonstrated significant improvements in pocket depth, gingival recession, and clinical attachment level compared with SRP alone.<sup>1</sup>

## Study Design

Prospective, randomized, controlled, and split-mouth investigation study, **designed to assess the safety and efficacy of Sterify Gel as an adjunctive treatment following non surgical SRP for periodontitis** in comparison with SRP alone<sup>1</sup>



**34 patients**

with moderate to advanced periodontal disease (stage III and IV)

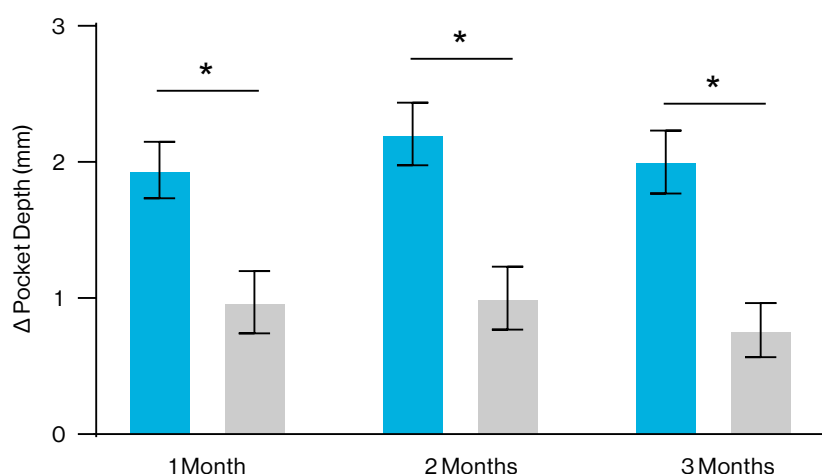


**Randomization: one site for SRP alone (control), the other site for SRP with Sterify Gel (treatment)**

CHANGES IN POCKET DEPTH, GINGIVAL RECESSION, AND CLINICAL ATTACHMENT LEVEL AFTER TREATMENT WITH **STERIFY GEL** COMPARED TO SRP ALONE<sup>1</sup>

### Change in pocket depth (PD)

in millimeters at 1, 2, and 3 months vs. pretreatment conditions (n=34)<sup>1</sup>



■ Sterify Gel + SRP  
■ only SRP

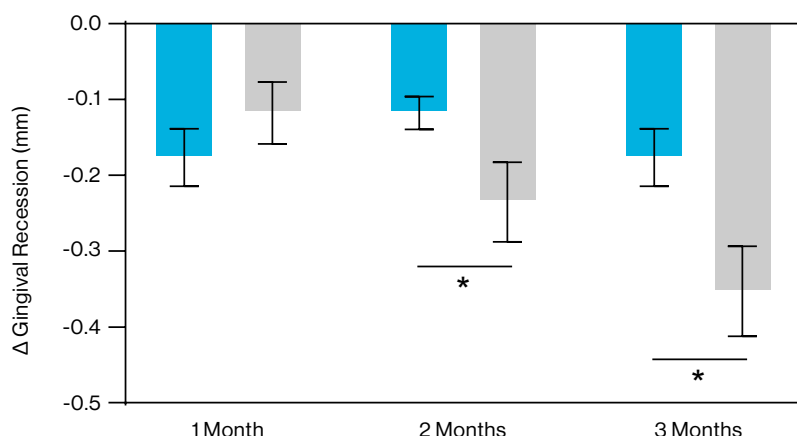
\*p<0,05

**Sterify Gel** in conjunction with SRP consistently demonstrated a **noteworthy improvement in PD, surpassing twofold enhancement compared to the control group** throughout all follow-up intervals<sup>1</sup>

Figure 1a

### Change in gingival recession

in millimeters at 1, 2, and 3 months vs. pretreatment conditions (n=34)<sup>1</sup>



■ Sterify Gel + SRP  
■ only SRP

\*p<0,05

Minimal gingival recession was observed in all patients; however, **patients treated with SRP only had a significant worsening compared to those treated with Sterify Gel** at 2 and 3 months<sup>1</sup>

Figure 1b

## Change in clinical attachment level (CAL) in millimeters at 1, 2, and 3 months vs. pretreatment conditions (n=34)<sup>1</sup>

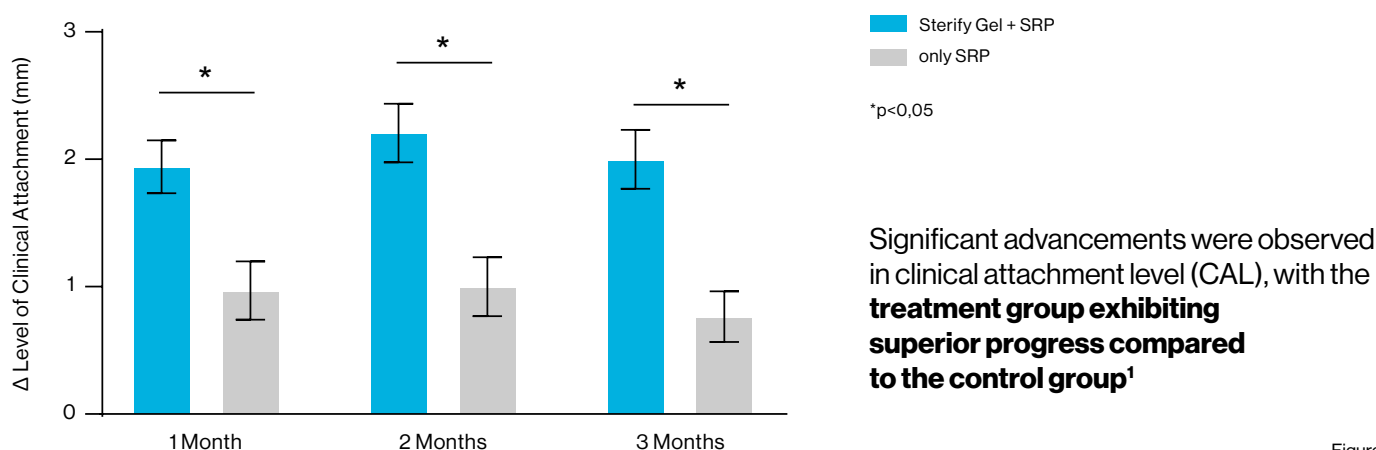


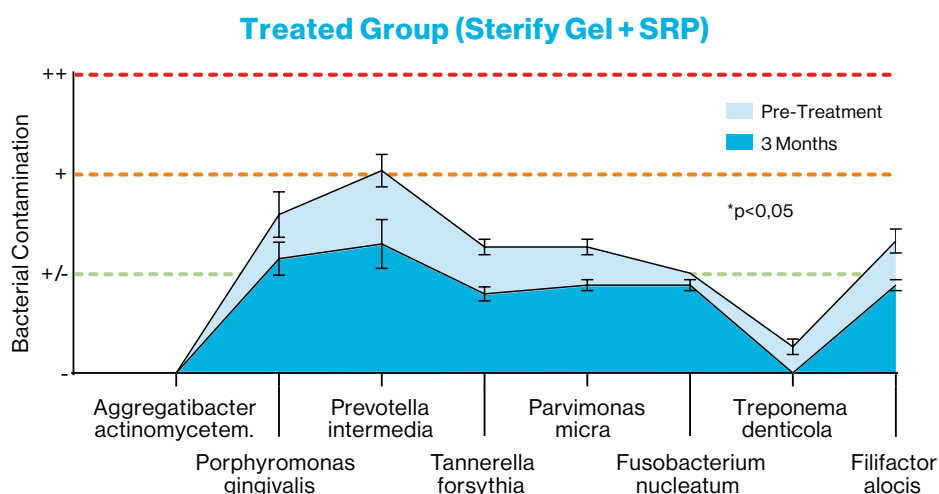
Figure 1c

## REDUCTION OF BACTERIAL CONTAMINATION IN PERIODONTAL POCKETS FOLLOWING TREATMENT WITH **STERIFY GEL<sup>1</sup>**

### Bacterial contamination of specific bacteria strains in treated and control sites

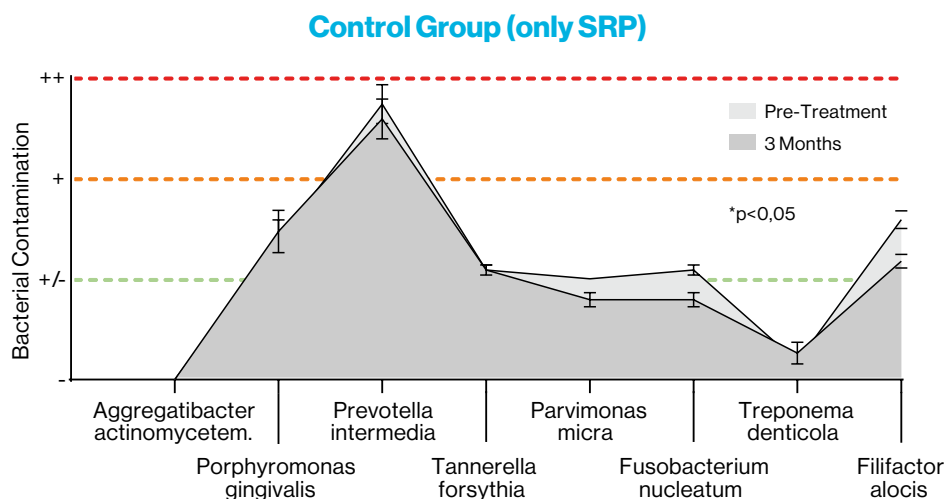
At 3 months follow-up, a “negative shift” to **less bacterial positivity was observed in the treatment group**, indicating a statistically significant trend toward reduced bacterial contamination<sup>1</sup>

Figure 4a



This trend was not observed **in the control group** who received SRP only, where **no statistically significant differences were found<sup>1</sup>**

Figure 4b



Bacterial contamination of specific bacteria strains was assessed through qPCR of samples obtained with probe collection in (a) treated and (b) control sites. On the Y-axis, “-” means negativity (no colony-forming units, CFU); “+” means low positivity (up to 10<sup>4</sup> CFU); “++” means moderate positivity (between 10<sup>5</sup> and 10<sup>6</sup> CFU); and “+++” means high positivity (between 10<sup>6</sup> and 10<sup>7</sup> CFU). “Aggregatibacter actinomycetem.” is short for Aggregatibacter actinomycetemcomitans. Error bars show SEM.<sup>1</sup>



**STY-GEL0301**  
Sterify Gel 0,3 ml, 1 syringe

Components	Functional description
<b>Polyvinyl polymers:</b>	
PVA (Poly Vinyl Alcohol) PVP (Poly Vinyl Pyrrolidone)	Physical occluding action
<b>Excipients:</b>	
NIS (Nisin)	Preservative
HT (Hydroxytyrosol)	Visco-modulator
MAP (Magnesium Ascorbyl Phosphate)	Gamma-protector
<b>Aqueous Solution:</b>	
CBS (Citrate buffer solution)	Saline solution

#### References:

1. Levrimi L, et al. Int J Dent. 2024;2024:3113479.
2. Sterify Gel - Instructions for use.



**Start using Sterify Gel today and see the difference!**  
[HuFriedyGroup.eu/Sterify-Gel](https://HuFriedyGroup.eu/Sterify-Gel)

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