

Sterify Gel

Expanding the Boundaries of Care and Protection

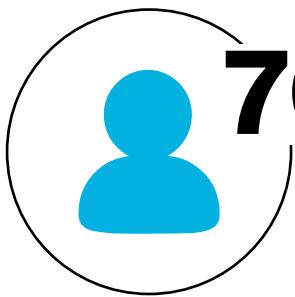
**Meet the reduced bacterial
contamination solution to support
the healing process in the treatment
of periodontal disease**



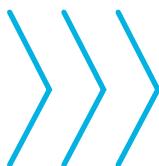
 **HuFriedy Group**
The Best In Practice

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

Affects about



70%



of the adult population¹

Leads to



the destruction of the supporting apparatus of the tooth¹

When treating periodontal disease, **Scaling & Root Planing (SRP) might currently require the addition of local antibiotic or local antibacterial agents¹**

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 disease²

Polyvinyl polymers (10%): |
Physical occluding action

..... | **Hydroxytyrosol:**
Visco-modulator

Nisin: |
Preservative

Sterify Gel*

..... | **Magnesium Ascorbyl Phosphate:**
Gamma-protector



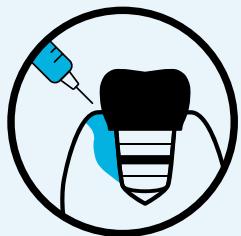
*Class III sterile, single-use, single-patient Medical Device, MDR Certified (CE 0426).²

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 pockets²**



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 process²**

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.¹

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 alone¹



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

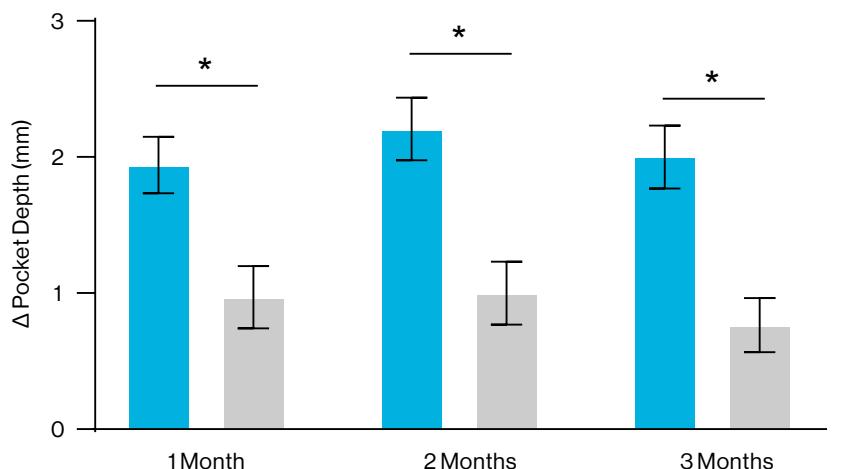


Randomization: one site for SRP alone (control), the other site for SRP with Sterify Gel (treatment)

CHANGES IN POCKET DEPTH, GINGIVAL RECESSION, AND CLINICAL ATTACHMENT LEVEL AFTER TREATMENT WITH **STERIFY GEL** COMPARED TO SRP ALONE¹

Change in pocket depth (PD)

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



Sterify Gel + SRP

only SRP

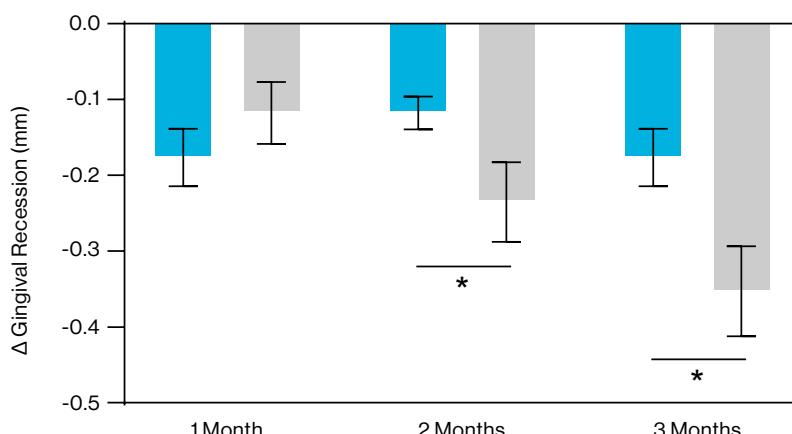
*p<0,05

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 intervals¹

Figure 1a

Change in gingival recession

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



Sterify Gel + SRP

only SRP

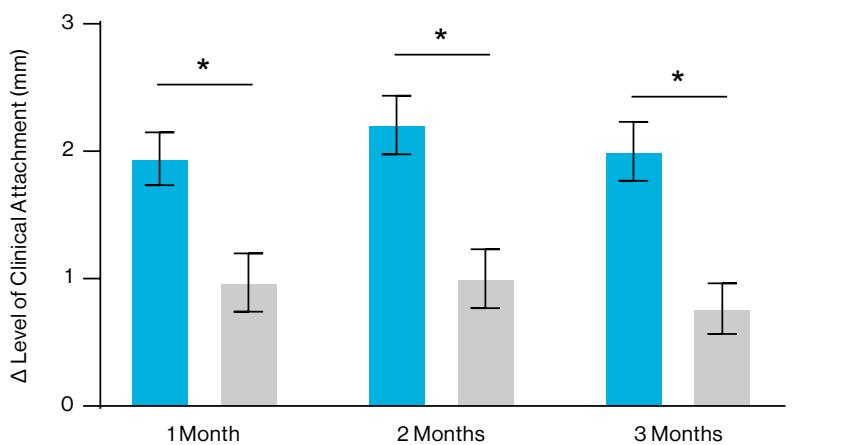
*p<0,05

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 months¹

Figure 1b

Change in clinical attachment level (CAL)

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



Significant advancements were observed in clinical attachment level (CAL), with the **treatment group exhibiting superior progress compared to the control group¹**

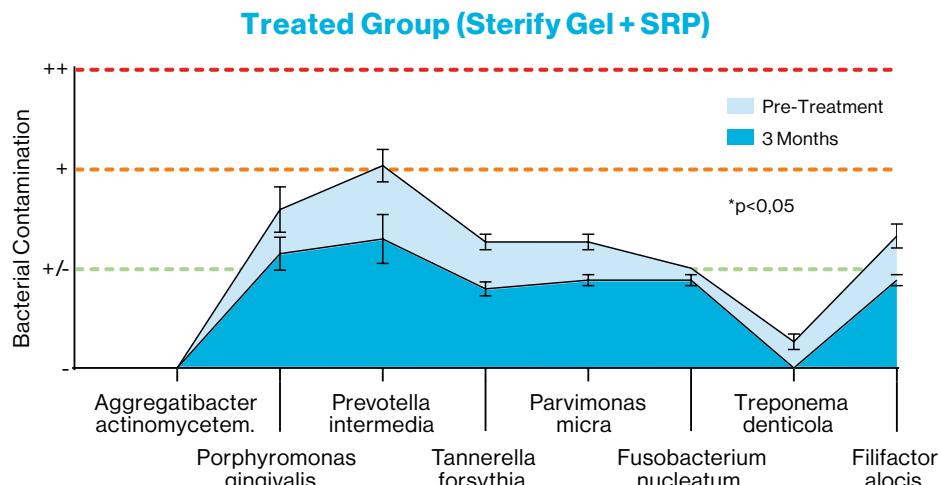
Figure 1c

REDUCTION OF BACTERIAL CONTAMINATION IN PERIODONTAL POCKETS FOLLOWING TREATMENT WITH STERIFY GEL¹

Bacterial contamination of specific bacteria strains in treated and control sites

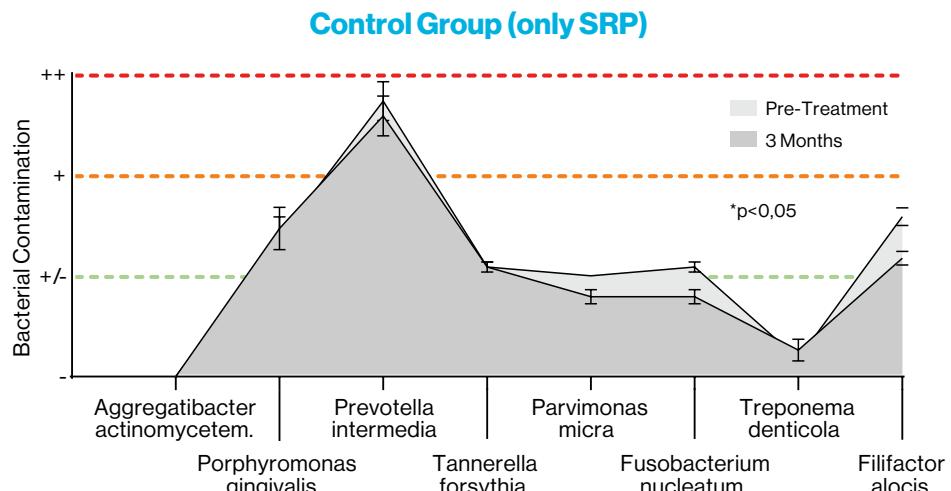
At 3 months follow-up, a “negative shift” to **less bacterial positivity was observed in the treatment group**, indicating a statistically significant trend toward reduced bacterial contamination¹

Figure 4a



This trend was not observed **in the control group** who received SRP only, where **no statistically significant differences were found¹**

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 10^4 CFU); “+” means moderate positivity (between 10^5 and 10^6 CFU); and “++” means high positivity (between 10^6 and 10^7 CFU). “Aggregatibacter actinomycetem” is short for Aggregatibacter actinomycetemcomitans. Error bars show SEM.¹



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

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

References:

1. Levrini 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

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