

# PerioTabs®



## A unique concept with 3 indications

Helps reduce bleeding gums

Helps avoid inflammation around implants

Helps reduce gum swelling in orthodontics



Made in Switzerland



# PerioTabs®

*A BREAKTHROUGH IN ORAL CARE*

## What is PerioTabs®?

- Small effervescent tablets dissolved in water to form a brushing solution for gums, teeth and dental implants.
- A 10 day treatment to help reduce gingivitis, periodontitis, peri-mucositis and the risk of developing peri-implantitis.
- A safe, chlorhexidine free, non-antibiotic biofilm removal formulation based on NitrAdine®.
- Eliminates micro-organism contamination of the toothbrush bristles.
- No side effects such as accumulation of stain on the tongue and teeth, burning sensations or taste alterations.
- Suggested use 3-4 times per year to ensure gums, teeth and dental implants remain free of biofilm.
- Unique and easy to use.



**TRIPLE 3 ACTION**

- 1 | ELIMINATES MICRO-ORGANISMS FROM TOOTHBRUSH
- 2 | CHEMICAL ACTION OF A HIGHLY POTENT ANTI-BIOFILM SOLUTION
- 3 | MECHANICAL ACTION OF BRUSHING GUMS, TEETH AND DENTAL IMPLANTS

# Product description

PerioTabs® helps reduce gingivitis, periodontitis, peri-mucositis and peri-implantitis through elimination of oral biofilm accumulation on gums, teeth and dental implants. The procedure consists of brushing the teeth and gums with the provided tablets dissolved in lukewarm water (Figure 1).

The formulation of PerioTabs® is based on the NitrAdine® anti-biofilm formula and is intended for use in the oral cavity on gums and teeth.

PerioTabs® contains 10 small effervescent tablets (1 tablet per day for 10 days). One tablet is to be dissolved in 15ml of lukewarm water in the provided container. Whilst the tablet is dissolving, the toothbrush should be immersed in the PerioTabs® solution (Figure 2) and left for 15 minutes. This will eliminate all micro-organisms from the toothbrush before brushing commences. The patient should then brush their gums, teeth and dental implants with the solution for 2 minutes (Figure 3). This process is to be repeated for 10 consecutive days.

PerioTabs® is a Medical Device Class I product and patent pending in Europe and USA (application numbers EP 15 798 353.7 and US 16/458,728).

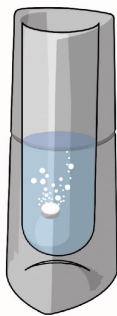


Figure 1

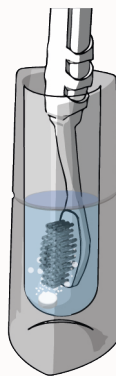


Figure 2

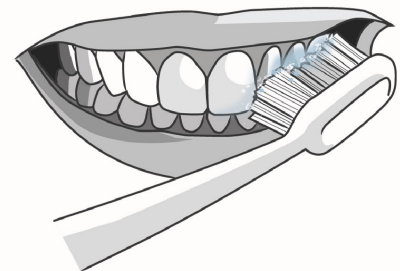


Figure 3

# What is NitrAdine®?

NitrAdine® is a unique tablet formulation. When dissolved in lukewarm water, it will result in a highly active solution that removes pathogenic biofilm from gums, teeth and dental implant materials to clinically insignificant levels.

The mode of action of NitrAdine®'s efficacy is based on the combination of a high concentration of surfactant (SLS) and other ingredients. The surfactant denatures the biofilm/micro-organism membrane proteins, whilst the other ingredients result in a slow release of a non-toxic concentration of only 0.02% hypochlorite, killing micro-organisms (bacteria, fungi and viruses) present within the biofilm. (NitrAdine® is not hypochlorite. Hypochlorite, also called bleach, is a 2-10% concentration of NaOCl, which is toxic and cannot be used in the mouth).

Several independent academic *in-vitro* studies have demonstrated that NitrAdine® induces a significant reduction of biofilm formed by *Candida albicans*, *Staphylococcus aureus*, *Streptococcus mutans* and *Pseudomonas aeruginosa* on oral medical devices. In addition, an anti-viral activity against *Herpes simplex* was observed (Ref 1-8). Recent clinical studies in patients suffering from chronic periodontitis demonstrated that 10 days brushing with PerioTabs® induces a significant reduction of periodontopathogenic bacteria including *Porphyromonas gingivalis*, *Prevotella intermedia* and *Aggregatibacter actinomycetemcomitans* (Ref 9).

NitrAdine® also eliminates micro-organisms present on toothbrush heads.

Additional properties of NitrAdine®:









- Non-toxic to gums (non-irritating, non-sensitizing)
- Non-antibiotic
- Non-corrosive to metal implants
- Non-erosive to dentine or enamel
- Compatible with all manual and electric toothbrush heads
- Chlorhexidine free



# Efficacy of PerioTabs®

## Pre-clinical and clinical research studies

There are currently 10+ ongoing pre-clinical and clinical research studies on the safety and efficacy of PerioTabs®.

COUNTRIES	PRE-CLINICAL & CLINICAL RESEARCH STUDIES
 Brazil	▶ HIV patients with chronic periodontitis (Univ. Sao Paulo)
 Switzerland	▶ Patients with gingivitis/periodontitis (Univ. Zürich)
 France	▶ <i>In vitro</i> periodontal biofilm efficacy (Univ. Nice) ▶ Orthodontic patients suffering from gingival swelling (Univ. Nancy)
 Malta	▶ Patients with gingivitis and peri-mucositis (EIMS)
 Italy	▶ Patients with gingivitis (University of Torino)** ▶ Patients with peri-implantitis (Tuscan Stomatological Institute, Camaione)** ▶ Patients with periodontitis (Tuscan Stomatological Institute, Camaione) ▶ Patients with gingivitis/periodontitis/peri-mucositis/peri-implantitis (Univ. Milan)** ▶ Patients with periodontitis (see Ref 12 under Scientific References) (Univ. Milan)*
 Spain	▶ <i>In vitro</i> periodontal biofilm efficacy study (Complutense Univ. Madrid)** ▶ Patients with peri-mucositis/peri-implantitis (Complutense Univ. Madrid)
 Romania	▶ Patients with periodontitis (Univ. Cluj) ▶ Patients that are heavy smokers with gingivitis (Univ. Constanta) ▶ Patients with periodontitis (Univ. Cluj) ▶ Patients wearing fixed partial dentures with periodontitis (see Ref 11 under Scientific References) (Univ. Timisoara)*
 India	▶ Patients with periodontitis (see Ref 10 under Scientific References) (Ethicare Clinical Trial Services)*

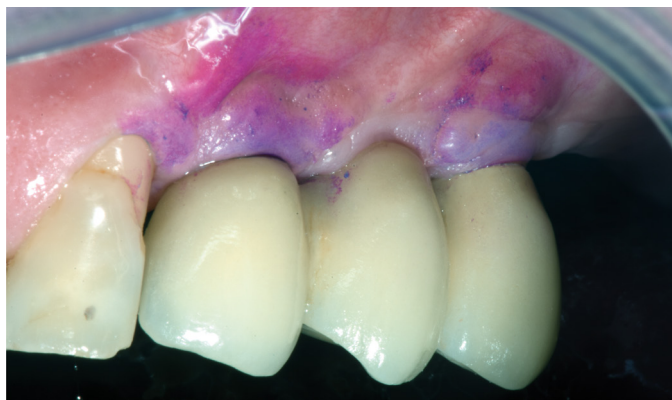
\* Publication available upon request or listed in PubMed.

\*\* Data is being submitted for publication and will be available shortly



# Efficacy of PerioTabs®

## Clinical studies results



Before



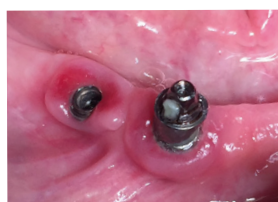
After 10 days brushing with PerioTabs®



Before



After 10 days brushing  
with PerioTabs®



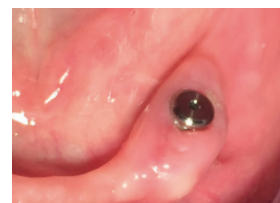
Before



After 5 days brushing  
with PerioTabs®



Before



After 5 days brushing  
with PerioTabs®

# Efficacy of PerioTabs®

## Clinical studies results



Before



After 10 days brushing  
with PerioTabs®



Before



After 10 days brushing  
with PerioTabs®

## Scientific references on NitrAdine®

1. Glass R.T., Bullard J.W., Conrad R.S., Blewett E.L. (2004). Evaluation of the sanitization effectiveness of a denture-cleaning product on dentures contaminated with known microbial flora. An in vitro study. *Quintessence Int* ; 35: 194–199.
2. Coenye T., De Prijck K., De Wever B., and Nelis H.J. (2008). Use of the modified Robbins device to study the in vitro biofilm removal efficacy of NitrAdine®, a novel disinfecting formula for the maintenance of oral medical devices. *J. Appl. Microbiol.* 105, 733–740.
3. Silva-Lovato C.H., De Wever B., Adriaens E., Paranhos H., Watanabe E., Pisani M.X., Souza R.F. de, and Ito I.Y. (2010). Clinical and antimicrobial efficacy of NitrAdine®-based disinfecting cleaning tablets in complete denture wearers. *J. Appl. Oral Sci.* 18, 560–565.
4. Vento-Zahra E., De Wever B., Decelis S., Mallia K., and Camilleri S. (2011). Randomized, double-blind, placebo-controlled trial to test the efficacy of NitrAdine® tablets in maxillary removable orthodontic appliance patients. *Quintessence Int.* 42, 37–43.
5. Glass R.T., Conrad R.S., Köhler G.A., Warren A.J., and Bullard J.W. (2011). Microbiota found in protective athletic mouthguards. *Sports Health* 3, 244–248.
6. Decelis S., Camilleri S., Zahra E.V., Scerri E., and De Wever B. (2012). The effect of NitrAdine® on the *Candida* levels of maxillary removable appliances. *Quintessence Int.* 43, 239–245.
7. Fathi H., Martiny H., Jost-Brinkmann P-G., (2015). Efficacy of cleaning tablets for removable orthodontic appliances. *J. Orofac. Orthop. / Fortschritte der Kieferorthopädie* 76, 143–151.
8. Coimbra F.C.T., Salles M.M., De Oliveira V.C., Macedo A.P., Da Silva C.H.L., Pagnano V.O., and Paranhos H. de F.O. (2016). Antimicrobial efficacy of complete denture cleansers. *Am. J. Dent.* 29, 149–153.
9. Sakly A., Jutla Y., Jutla B., Haddad I., De Wever B., Satia M., and Bogaert J.P. (2017). Clinical and microbiological effects of PerioCream® a periodontal dressing combined with an antimicrobial gum brushing solution after scaling and root planing : A multi-center randomized clinical trial. *J Dent Oral Care* 2, 1–6.
10. Goguta L., Lungeanu D., Ilie C., Rotar R., Leretter M., De Wever B., Jivanescu A., Topală F. (2021). Efficacy Of PerioTabs®, A NitrAdine®-Based Gingiva Brushing Solution, On Periodontally Affected Patients Treated With Fixed Partial Dentures: A Randomized Controlled Study. *Quintessence Int.* 52;2-8.
11. Cosola T., Oldoini G., Giammarinaro E., Covani U., Genovese A., and Marconcini S. The effectiveness of the information-motivation model and domestic brushing with a hypochlorite-based formula on peri-implant mucositis: a randomized clinical study. *Clinical and Experimental Dental Research*, 2021 (in press).
12. Nelken A., Biesuz V.E., Tansella S., Epifani F., Re D. Un coadiuvante nel trattamento non chirurgico delle patologie parodontali. *Dentista Moderno*, 60-68, June 2021.

# PerioTabs®



Heiligkreuz 16  
FL-9490 Vaduz  
Liechtenstein, Europe

Phone: +423 232 78 15  
Fax: +423 232 51 88  
Email: [administration@bonyf.com](mailto:administration@bonyf.com)



[www.periotabs.com](http://www.periotabs.com)



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