Fast and effective healing of the most severe cases



PROBLEM

Significantly reduced oxygenation (p <0.05) in peri-implantitis and periodontitis sites compared to healthy tissue.

SOLUTION

Use of OXYSAFE®

- ✓ Increased oxygen saturation very effective in severe cases
- Increased oxygen saturation stimulates neovascularization
- ✓ Eliminates harmful anaerobic bacteria



=> Ø 56 % reduction of gingival pocket after threemonth treatment with Ardox-X (OXYSAFE)

Source: see Berendsen et al.

ADVANTAGES AT A GLANCE

- Rapid depth reduction and disinfection of gingival pockets
- ✓ Fast wound healing
- ✓ Long-term effect
- ✓ More than 20 years of clinical experience

ORDER

FAX: +49 (203) 98 630 449

Quantity	Product	REF
	OXYSAFE Intro-Kit Professional (3 x 1 ml gel + 3 x 250 ml mouthwash + 3 Luer cannulas)	155 040
	OXYSAFE Gel Professional (3 refill syringes)	155 041
	OXYSAFE Liquid Professional mouthwash (1 x 250 ml)	155 042

- □ Please send me scientific studies.

Contact person / practice stamp

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DENTAL HEALTH FOR YOUR PATIENTS



OXY SAFE

Active oxygen for effective PERI-IMPLANTITIS and PERIODONTITIS THERAPY



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How does the OXYSAFE® oxygen technology work?

Periodontitis and peri-implantitis are the result of bacterial accumulations, some of which show up in the form of dental plague and can trigger complex inflammatory processes. In the formed biofilm, microorganisms organize themselves in such a way that they are able to protect themselves from external influences. They form a solid matrix which many antibacterial products such as Chlorhexidine (CHX) cannot penetrate due to their large molecular size.¹The situation is different with OXYSAFE.

OXYSAFE Gel releases oxygen which, due to its activity and small size, can penetrate the biofilm and is effective there in two ways. The oxygen cannot be used by the anaerobic bacteria involved in the inflammatory process, so that the biofilm is weakened and its functionality is disturbed. At the same time, the oxygen supports the surrounding soft tissue in healing. In addition, a new formation of the biofilm is inhibited. Oxygen protects the oral flora and neither mucosa cells nor osteoblasts are attacked.² Active oxygen breaks down the molecules of polysacchids, fats and peptides.

The effectiveness of OXYSAFE has been confirmed by independent universities and many studies (see list of sources).

5-fold active complex of oxygen

I Increases cell metabolism and energy production

When tissue is injured, the blood vessels constrict to stop blood flow. This leads to an undersupply of oxygen.^{3,4} OXYSAFE releases controlled and continuous oxygen, which counteracts the undersupply. This stimulates cell energy production and thus cell metabolism. Working cells are essential for wound healing.⁴

II Increases collagen synthesis and tensile strength

Collagens give the tissue tensile strength due to the stable triple helix that they typically form. OXYSAFE releases oxygen which is essential for the hydroxylation of proline and lysine during collagen synthesis.^{3,5}

III Increases antibacterial activity

In the initial phase of wound healing, leukocytes penetrate the wound area and eliminate germs. The oxygen demand can be up to 50 times higher during this phase.^{6.7} Therefore, OXYSAFE releases oxygen continuously and in doses.

IV Increases angiogenesis and promotes revascularization

Targeted hyperoxygenation recruits endothelial progenitor cells for the wound and promotes angiogenesis.³

V Promotes growth factor signals

Oxygen also increases the vascular endothelial growth factor (VEGF). 3,8

What is the difference between **OXYSAFE® Gel Professional and Liquid?**

OXYSAFE Gel Professional is used exclusively by the dentist during periodontal therapy and gets applied directly into the gingival pocket. The product is supplied in ready-to-use 1 ml syringes and is verv economical.

OXYSAFE Liquid Professional is a mouthwash used by the patient as an immediate follow-up treatment at home. It ensures that enough active oxygen remains in the mouth, maintaining an antibacterial effect and supporting the desired wound healing.

Active ingredient sodium perborate

OXYSAFE contains a patented Ardox-X® technology based on active oxygen (hydrocarbon oxoborate complex), which is activated by contact with the skin or mucosa. This complex acts as a matrix that releases the active oxygen in the area to be treated. This immediately reduces the number of gram-negative bacteria. Furthermore, the micro environment is enriched with oxygen and has a proven positive effect on the treatment of inflamed gingival pockets.

5-fold active complex of oxygen



activity

How is OXYSAFE[®] used?





4. Second direct application 5. Bacteria got eliminated of the gel in the gingival pocket - leave it there





6. Continuation of treatment by the patient at home





50-year-old male patient presents with chronic, generalized periodontitis. Hyperplastic gingiva evident.

Condition after mechanical periodontitis therapy. Final application of OXYSAFE in region 14 to 24. Patient feels a slight tingling and warmth due to the active oxygen reaction.

Clinical result 4 weeks after treatment, Patient uses OXYSAFE mouthwash solution to accompany the treatment Rosy, inflammation-free gingiva visible.

References:

- 1 Dr. P.J.M. Kamp (2002) A pilot study to measure the effect on periodontal associated micro-organisms of Ardoz Tooth Gel and Ardoz Implant Conditioner, 13-15. 2 Berendsen et al. (2014) Ardox-X* adjunctive topical active oxygen application in periodontitis and peri-implantitis – a pilot study.

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