

# Sanoskin® OXY Wound Gel

## Overview

- A unique 100% ozonated olive oil-based gel
- Ozonated – Its acid oxidative environment is unfavorable to microorganisms, such as bacteria, yeast and fungi – strong antimicrobial properties <sup>i</sup>
- Promotes autolytic debridement of the necrotic tissue and does not adhere to the wound
- Can also be used on intact skin
- It spreads easily



## Product description

SanoSkin® OXY is an ozonated olive oil-based gel that facilitates wound debridement. When the gel is in contact with wound fluid/water, ozonides are released impeding bacterial growth and wound malodor. The ozonides create an acid oxidative environment that is unfavorable for bacteria, yeast and fungi <sup>iii</sup>. SanoSkin® OXY is a gentle gel that is able to create a moist wound healing environment. OXY is a primary wound dressing that can be covered by most commonly used secondary dressings. SanoSkin® OXY is also an excellent product to treat acne, eczema and fissures.

One of the most significant benefits of using an ozonated olive oil-based gel is the strong eradication of the biofilm (a thin but robust layer under which bacteria and micro-organism are able to protect themselves against treatment) on a wound regardless of the maturity stage of the biofilm <sup>iii</sup>. In order to promote an optimal healing environment, it is essential that biofilm is successfully removed from the wound <sup>iv</sup>. The ozonated olive oil of SanoSkin® OXY is easy to apply due to its liquid form. Finally, another benefit of the ozonated olive oil is its capacity to travel deep inside the lesion without causing primary skin irritation.

## Specifications

<b>Brand</b>	SanoSkin® OXY
<b>Process</b>	Ozonation (Olive oil)
<b>Delivery System</b>	Tube
<b>Department</b>	Dermatology, Intensive Care unit, Oncology, Wound Care/Management
<b>Product Type</b>	Gel
<b>Ingredients</b>	Ozonated vegetable oil (100% olive oil)
<b>Sting (pain sensation)</b>	Low to no-sting on application
<b>Volume (gr)</b>	30gr
<b>Contra-indications</b>	Patients who are known to be sensitive to the ointment or one of its components

## The use of SanoSkin® OXY does not lead to resistance in micro-organisms.

- A unique natural 100% olive oil-based gel
- Ozonated – Its acid oxidative environment is unfavorable to microorganisms, such as bacteria, yeast and fungi – strong antimicrobial properties due to its low pH and the oxidative environment <sup>ii</sup>
- Promotes autolytic debridement of the necrotic tissue and does not adhere to the wound
- An excellent product for acne, eczema and fissures
- Can also be used as a skin barrier to avoid maceration and as a hydrating agent for dry peri-wound skin
- Does not lead to micro-organisms building resistance over time <sup>i</sup>
- Can also be used on intact skin
- It spreads easily

### Indication

- Superficial wounds
- Acne, eczema, foot fungus and fissures

### Contraindications

Do not use on patients who are known to be sensitive to the ointment or one of its components.

## Ozonated Oil Therapy Study – Lower Limbs Ulcers

Performed in: Louis Pasteur Polyclinic and National Centre for Scientific Research, France, 2000

#### *MATERIALS AND METHODS:*

The sample was composed of 120 patients with lower limb ulcers (post traumatic or due to chronic venous insufficiency) of 1 to 4 centimetres diameter, at random distributed among two groups: Ozonated Oil group and Control Group. Ulcers were of recent origin or up to 3 years old, even some were suffered torpid evolution.

#### *TREATMENT:*

The treatment for this study was recommended to patients for 30 days at home.

**Control group:** 60 patients, treated as:

- Venous repose.
- Hyposodic diet.
- Oral analgesics, if needed.
- Cures twice a day as follows:
- Mechanical cleaning of the area with benzalconium chloride
- Local application of antibiotics.

The first cure was performed by the physician to instruct the patient and/or the accompanying person how to repeat the subsequent at home.

**Ozonated Oil Group:** 60 patients, treated with the same procedures but with ozonated oil, instead of antibiotics.

#### *EVALUATION CRITERIA:*

**Evolution:** as to the behaviour of patients' signs and symptoms.

**Healing:** as to the cicatrisation of wounds. After the period of the study, in cases not healed, remission to hospital was considered.

#### *RESULTS AND DISCUSSION:*

Table I shows distribution of ulcers between groups according to etiology. Most of them were of venous insufficiency origin, as usual, and their distribution was homogeneous. Also homogeneous were the distributions of sex and age between groups.

In Table II, the evolution of signs and symptoms show that better results were achieved with ozonated oil at the end of the first half of the treatment period.

**Table I**  
**Lower Limbs Ulcers: Patients distribution according to etiology**

Etiology	Ozonated olive oil		Control		Total	
	Pats. No	%	Pats. No	%	Pats. No	%
Venous Insufic.	54	90	53	88	107	89
Post - traumatic	6	10	7	12	13	11
<u>Total</u>	<u>60</u>	<u>50</u>	<u>60</u>	<u>50</u>	<u>120</u>	<u>100</u>

**Table II**  
**Lower Limbs Ulcers: Symptoms and signs disappearance**

Symptoms disappearance	Ozonated olive oil				Control			
	< 15 days		> 15 days		< 15 days		> 15 days	
	Pats. No	%	Pats. No	%	Pats. No	%	Pats. No	%
Inflammation	57	95	3	5	7	12	53	88
Bad smell	60	100	-	-	60	100	-	-
Pain	58	97	2	3	38	63	22	37

**OBSERVATION:**

It was clinically observed that bad smell, pain and itching disappeared from the first 24 hours and inflammation from the 3<sup>rd</sup> day in the majority of the patients. Granulation of the tissue occurred around the 5<sup>th</sup> day, followed by the initiation of the reduction of the diameter of the ulcer. On the other hand, in the control group the change was significantly slower in all aspects. Inflammation and, to a lesser extent, pain remained present in many patients for more than 15 days.

Regarding the healing of the ulcers, it was very remarkable that the majority of the patients (95 %) using ozonated olive oil treatment healed within the first 15 days (Table III) and the remaining 3 patients within the following 5 days. In control group instead, only a few patients healed within the first 15 days. Most of them healed between days 16 and 20, and 8 patients did not heal up to the end of the 30 days period and had to be submitted for hospital treatment.

**Table III**  
**Lower Limbs Ulcers: Healing periods**

Healing period	Ozonated olive oil		Control	
	Pats. No	%	Pats. No	%
≤ 15 days	57/60	95	7/60	12
16 – 20 days	3/60	5	45/60	75
21 – 30 days	-	-	-	-
No healing	-	-	8/60	13

**CONCLUSION:**

Ozonated olive oil appears to be much more effective than conventional treatments for healing of lower limb ulcers of venous or traumatic origin. Symptoms disappeared faster in those treated with ozonated olive oil in comparison with the control group. Lower limb ulcers in ozonated oil group healed within less than 15 days in 95% of patients, while in control group this was achieved in only 11,6% of patients.

## Legal Disclaimer

SanoSkin® OXY is a medical device listed on the Therapeutic Goods Register, ARTG ID: 317491. The information provided on the SanoMed website is true and correct; however, it does not supersede advice from a healthcare practitioner. It is essential that you read the Instructions for Use document (IFU can be found inside each box) prior to using any SanoMed product. Seek advice from a healthcare practitioner. If the condition deteriorates, discontinue use.

## References

- <sup>i</sup> Data on file
- <sup>ii</sup> Clinical Trial (2000). Lower limbs ulcers. Ozonated oil therapy study. Louis Pasteur Polyclinic and National Centre For Scientific Research. France, EU
- <sup>iii</sup> Brackman, G., De Meyer, L., Nelis, H. J., & Coenye, T. (2013). Biofilm inhibitory and eradicating activity of wound care products against *S taphylococcus aureus* and *S taphylococcus epidermidis* biofilms in an in vitro chronic wound model. *Journal of applied microbiology*, 114(6), 1833-1842.
- <sup>iv</sup> Dowd, S.E., Sun, Y., Smith, E., Kennedy, J.P., Jones, C.E. and Wolcott, R. (2009) Effects of biofilm treatments on the multi-species Lubbock chronic wound biofilm model. *J Wound Care* 18, 510–512.

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