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Cold plasma "Wound-Sanitizer" – in use observation pilot case study

Goal:

The recognition of the spectrum of action of the "Wound Sanitizer" in the routine treatment of chronic and secondary healing wound patients. Reactions to inflammation and infection, as well as healing tendencies in terms of granulation and epithelialization. Likewise, changes in the wound environment in the range of the pH value.

Inclusion criteria:

- Wounds of any genesis with a previous frustrating local therapy over 2 months.
- Secondary wounds that are difficult to heal
- Inflammation and local infections

Exclusion criteria:

- Antibiotic the last 2 weeks before starting treatment with the "Wound Sanitizer".
- Dry, black necrosis
- Allergies and/or intolerances to local therapy with the "Wound Sanitizer"

Procedure:

- Cleaning the wound through a wet phase with a wound irrigation solution
- Application of the plasma-enriched aerosol over 3 minutes
- Covering the wound with a non-active wound dressing (spacer grid)
- Secondary dressing with non-active foam or suction compress.

Duration of observation:

- 4 weeks
- Visual documentation at the beginning and 1x weekly
- Treatment with "Wound Sanitizer" 2x weekly

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Case 1:

Diagnosis:Ulc. Crur. Ven.Gender:femaleLocalization:Ankle outside liDuration:14 weeks

Day 0:



Exudate: Wound base: Infection: Depth: Area: moderate no epithelialization, granulation, slight plaque no local signs of infection superficial Environment dry, scaly, slightly reddened

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<u>Case 1</u> Day 7



Exudate: Wound base: Infection: Depth: Area: moderate already onset of epithelialization, granulation, slight plaque no local signs of infection superficial Environment slightly reddened

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<u>Case 1</u> Day 14



Exudate: Wound base: Infection: Depth: Area: little mostly epithelial no local signs of infection superficial slightly reddened

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<u>Case 1</u> Day 21



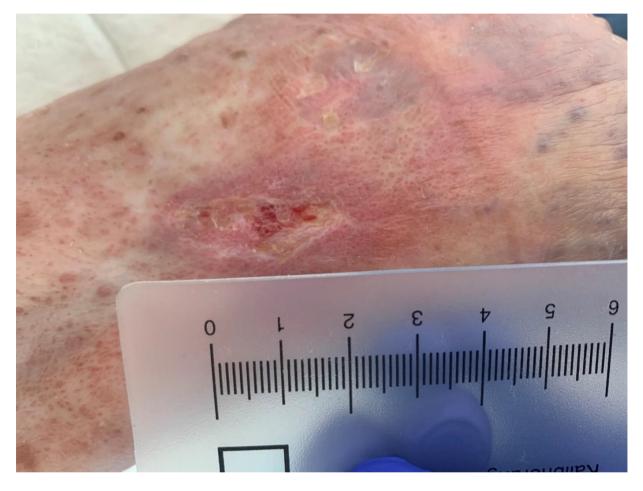
Exudate:	little
Wound base:	almost complete epithelialization, little plaque
Infection:	no local signs of infection
Depth:	superficial
Area:	slightly reddened

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<u>Case 1</u> Day 28



Exudation:	little
Wound base:	almost completely healed
Infection:	no local signs of infection
Depth:	superficial
Area:	no special features

Summary:

Since the beginning of local therapy with the "Wound – Sanitizer", increasing epithelialization and decrease of fibrin deposits. Due to the rapid reduction of the wound area, there was also a decrease in the amount of wound exudate.

The patient did not report a negative feeling about the therapy.

Within the observation period of 4 weeks, almost complete wound closure occurred.

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Case 2:

Diagnosis:times perf. Plant., DM IIGender:maleLocalization:Foot plantar leftDuration:17 weeks

<u>Day 0</u>



Exudate:	a lot
Wound base:	granulation, wound pocket after distal
Infection:	slight redness after distal and proximla
Depth:	wound pocket about 2 cm
Area:	wound edge macerated; area slightly keratinized

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<u>Case 2</u> Day 7



Exudation:	moderate
Wound base:	granulation and incipient epithelialization
infection:	no local signs of infection
Depth:	Wound pocket after distal about 1 cm
Area:	Wound edge slightly macerated, wound area slightly keratinized

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Exudation: Wound base: Infection: Depth: Area: little large-scale epithelialization, granulation no local signs of infection

no wound pockets, superficial

Wound area slightly keratinized

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<u>Case 2</u> Day 21



Exudation:	little
Wound base:	large-scale epithelization, granulation
Infection:	no local signs of infection
Depth:	superficial
Area:	Wound area slightly keratinized

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<u>Case 2</u> Day 28



Exudate:	none
Wound base:	complete epithelial
Infection:	no local signs of infection
Depth:	-
Area:	slightly keratinized

Summary:

The patient came forward after a long frustrating treatment by the MVZ with the recommendation of amputation of the 5th toe strand. Already after a short time with the treatment with the "Wound – Sanitizer" a positive progression of the course of wound healing. The wound pocket was closed after 2 weeks, so that after 4 weeks a complete wound closure had to be detected.

Further therapy recommendation: regular podiatric treatment and adequate footwear.

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Case 3

Diagnosis:	P.S. Healing after bypass
Gender:	Male
Localization:	Tibia left
Duration:	14 weeks

<u>Day: 0</u>



Exudate: Wound base: Infection: Depth: Area: a lot mostly occupied, granulation, fatty tissue slightly reddened, a lot of exudate (bloody, greenish) wound pocket after proximal no specialties

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Exudation:	moderate
Wound base:	fibrin coating, granulation
Infection:	slight redness
Depth:	no more wound pocket
Area:	no specialties

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<u>Case 3</u> Day 14



Exudation: Wound base: Infection: Depth: Area: moderate decrease in fibrin, granulation slightly reddened superficial slightly reddened

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<u>Case 3</u> Day 21



Exudation: Wound base: Infection: Depth: Area: little epithelialization and granulation no local signs of infection superficial no specialties

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<u>Case 3</u> Day 28



Exudate:	little
Wound base:	epithelialization
Infection:	no local infection signs
Depth:	superficial
Area:	no special features

Summary:

Deep wound healing per sekundam with a lot of greenish exudate in the sense of infection with Gram bacteria. After treatment with the "Wound-Sanitizer" there was a rapid decrease in the amount of exudate. Exudate color bloody, serous after 2x treatment. Subsequently, there was a rapid onset of epithelialization and granulation. On the last day of the observation period, there was an almost complete wound closure with beautiful scarring.

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Case 4

Diagnosis:Z.n. AmputationGender:maleLocalization:Dig V plans rightDuration:3 weeks

<u>Day 0</u>



Exudate:moderateWound base:fibrin coating, granulationInfection:no local signs of infectionDepth:superficialArea:no specialties

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<u>Case 4</u> Day 7



Exudate:moderateWound base:fibrin coating, granulation, slight epithelialization from the edge of the woundInfection:no local signs of infectionDepth:superficialArea:no specialties

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<u>Case 4</u> <u>Day</u> 14



Exudate:	moderate
Wound base:	fibrin coating, granulation, epithelialization
infection:	no local signs of infection
Depth:	superficial
Area:	no specialties

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<u>Case 4</u> Day 21



Exudate:moderateWound base:fibrin coating, granulation, increase in epithelializationInfection:no local signs of infectionDepth:superficialArea:no specialties

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<u>Case 4</u> Day 28



Exudate:moderateWound base:decrease in fibrin coating, granulation, increase in epithelializationinfection:no local signs of infectionDepth:superficialArea:without specialties

Summary:

Amputation due to vascular occlusion. After revascularization and amputation of the 5th toe, local therapy with the "Wound – Sanitizer". Already after a very short time reduction of the wound area and increase in epithelialization.

Additional therapy: pressure relief through adequate footwear.

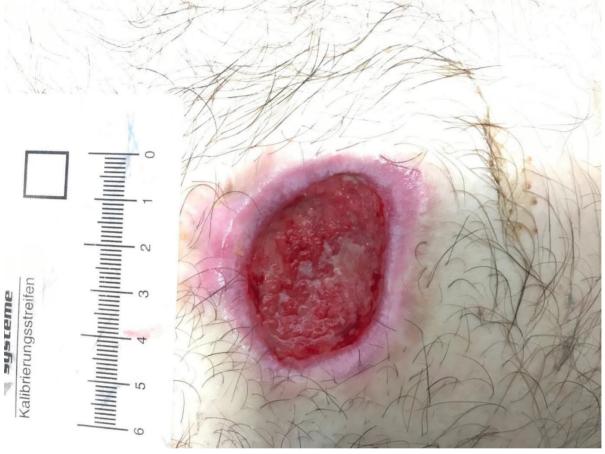
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Case 5

Diagnosis:	Traumatic due to self-harm
Gender:	Male
Localization:	Abdomen
Duration:	3 weeks

<u>Day 0</u>



Exudate:	a lot
Wound ground:	granulation
Infection:	Gram – rod
Depth:	1 cm
Area:	without specialties

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Exudate:	moderate
Wound base:	granulation, incipient epithelialization
infection:	smear negative, no local signs of infection
depth:	0.5 cm
Area:	without specialties

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Exudate:moderateWound base:granulation, progressive epithelializationInfection:no local signs of infectionDepth:superficialArea:without special features

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Exudate:moderateWound base:granulation, increasing epithelialization, wound area significantly smallerinfection:no local signs of infectionDepth:superficialArea:without specialties

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Exudate:littleWound base:granulation, increasing epithelialization, wound area significantly smallerInfection:no local signs of infectionDepth:superficialArea:without special features

Summary:

Pat with self-injury with scissors. Wound initially strongly exuding, greenish exudate, no healing tendency by treatment by the family doctor.

Rapid decrease in microbial load after 2 treatments with the "Wound – Sanitizer". Conspicuously rapid epithelialization from the edge of the wound

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<u>Case 6</u>

Diagnosis:	Metal removal after implant infection
Gender:	Male
Localization:	inner ankle left
duration:	4 weeks

<u>Day 0</u>



Exudate:		
	Evend	a+a.
		ale'

A lot

Wound base: Infection:	plaque Redness, pain, smear: staphylococci, streptococci
Depth:	2 cm
Area:	weeping, inflammatory, eczematous

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Exudate: moderate

Wound base:	occupied, granulation
Infection:	slight redness at the edge of the wound
Depth:	2 cm
Area:	significant improvement of the skin condition

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Exudate:	moderate
Wound base:	granulation
Infection:	no local infection signs
Depth:	2 cm
Area:	significant improvement

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<u>Case 6</u> Day 3



Exudate:moderateWound base:granulationInfection:no local signs of infectionDepth:1.5 cmArea:significant improvement

Summary:

Pat after metal removal in case of infection of the implant. Wound environment clearly affected. Strongly weeping, eczematous, reddened. Special attention to the course of the skin situation through the application of "Wound – Sanitizer". Already on the following day significant improvement of the skin condition, without the use of additional steroid-containing topicals.

After 3 days of use with cold plasma almost normal skin condition.

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<u>Case 7</u>

Diabetic ulcer
Male
Big toe
5 weeks

<u>Day 0</u>



Exudate:	moderate
Wound base:	fibrin coating, granulation
Infection:	redness
Depth:	superficial
Area:	Wound edge slightly macerated, wound environment partly scaly, dry, keratinized

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<u>Case 7</u> Day 7



Exudate:moderateWound base:slightly occupied, granulationinfection:no local signs of infectiondepth:superficialArea:without specialties

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<u>Case 7</u> Day 14



Exudate:	moderate
Wound base:	granulation
Infection:	no local infection signs
Depth:	superficial
Area:	without specialties

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<u>Case 7</u> Day 21



Exudate:moderateWound base:granulation, incipient epithelializationInfection:no local signs of infectionDepth:superficialArea:without specialties

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<u>Case 7</u> Day 28



Exudate:moderateWound base:slightly occupied, granulation, increasing epithelializationInfection:no local signs of infectionDepth:superficialArea:without specialties

Summary:

Pat after weeks of self-therapy with various means. After the start of therapy with the "Wound –Sanitizer" increasing improvement of the wound situation. Rapid decrease in signs of inflammation and rapid onset of epithelialization

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Case 8

Diagnosis:	traumatic injury in existing skin graft
Gender:	male
Localization:	Achilles tendon
Duration:	3 weeks

<u>Day 0</u>



Exudate: moderate

Wound base:plaqueInfection:no local infection signsDepth:0.5 cmArea:dry, scaly, wound edge edematous

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<u>Case 8</u>





Exudate:	moderate
Wound base:	plaque, granulation, already onset of epithelialization
Infection:	no local signs of infection
Depth:	0.5 cm
Area:	without specialties

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<u>Case 8</u> Day 14



Exudate:moderateWound base:granulation, epithelializationInfection:no local signs of infectionDepth:superficialArea:without special features

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<u>Case 8</u> Day 21



Exudate:littleWound base:granulation, increasing epithelisationinfection:no local signs of infectionDepth:superficialArea:without special features

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Exudate:	little
Wound base:	significant increase in epithelialization, almost wound closure
Infection:	no local signs of infection
Depth:	superficial
Area:	without special features

Summary:

Pat injures himself while cycling on skin graft, which had healed for 3 years. Open, gaping wound with visible tendon. Previous treatment by the plastic surgeon, who has recommended a new skin graft as usual with such wounds. Pat wants conservative treatment and avoidance of surgery.

Local therapy with "Wound – Sanitizer" leads to rapid cleansing, granulation and epithelialization of the wound. Almost complete closure during the observation period.

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Case 9

Diagnosis:	Ulc.crur. ven
Gender:	female
Localization:	Outer ankles
Duration:	5 weeks

<u>Day 0</u>



Exudate:a lotWound base:plaqueInfection:Exudate yellowish, cloudy, redness, painDepth:superficialArea:Redness, slight maceration of the wound area

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<u>Case 9</u> Day 7



Exudate:	moderate
Wound base:	slightly occupied, granulation
Infection:	Exudate bloody serous, no pain
Depth:	superficial
Area:	slightly reddened

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Exudate:	moderate
Wound base:	Granulation, significant reduction of wound area
Infection:	no local signs of infection
Depth:	superficial
Area:	without special features

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<u>Case 9</u> Day 21



Exudate:moderateWound base:granulation, epithelializationInfection:no local signs of infectionDepth:superficialArea:dry, scaly

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Exudate:moderateWound base:granulation, epithelialization, strong reduction of wound areaInfection:no local signs of infectionDepth:superficialArea:without specialties

Summary:

Chronisch venous ulcer for several weeks. Previous therapy through home care. After starting with the "Wound – Sanitizer" immediate, significant improvement of the wound conditions. Very rapid decrease in wound area during the observation period.

Pain already after the 2. Treatment significantly reduced Additional therapy: compression

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<u>Case 10</u>

Diagnosis:	Ulc.crur. ven
Sex:	female
Localization:	Lower leg right
Duration:	7 weeks

<u>Day 0</u>



Exudate:	A lot
Wound base:	plaque
Infection:	Redness, exudate amount, pain
Depth:	superficial
Area:	Redness, slight maceration

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<u>Case 10</u> Day 7



Exudate:	moderate
Wound base:	slightly occupied, granulation
infection:	no local signs of infection
depth:	superficial
Area:	without specialties

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<u>Case 10</u> Day 14



Exudate:	moderate
Wound base:	slightly occupied, granulation, onset of epithelialization
Infection:	no local signs of infection
Depth:	superficial
Area:	without specialties

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Exudate:moderateWound base:granulation, progressive epithelializationinfection:no local signs of infectionDepth:superficialArea:without specialties

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<u>Case 10</u> Day 28



Exudate:moderateWound base:occupied, granulation, significant reduction of wound areaInfection:no local signs of infectionDepth:superficialArea:without specialties

Summary:

Frustrane treatment and stagnation of the wound situation over several weeks. After application with "Wound – Sanitizer" rapid onset of wound healing. Decrease in the signs of infection and reduction in the amount of exudate after a short time. Sharp decrease in wound areas during the observation period Additional therapy: compression

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<u>Case 11</u>

Diagnosis:	Ulc.crur.
ven gender:	female
Localization:	Lower leg rebi-side
Duration:	3 weeks

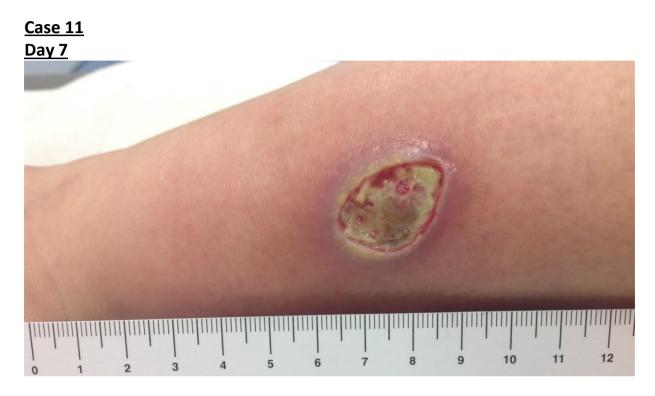
<u>Day 0</u>



Exudate:moderateWound base:plaqueInfection:dark fibrin deposits, rednessDepth:superficialArea:locally reddened

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Exudate:	moderate
Wound base:	plaque, granulation
Infection:	no local infection signs
Depth:	superficial
Area:	without specialties

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<u>Case 11</u> Day 14



Exudate:	moderate
Wound base:	slightly occupied, granulation
infection:	no local signs of infection
depth:	superficial
Area:	without specialties

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<u>Case 11</u> Day 21



Exudation:	moderate
Wound base:	slightly occupied, granulation, epithelialization
Infection:	no local signs of infection
Depth:	superficial
Area:	without specialties

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Case 11 Day 28



Exudation:moderateWound base:granulation, epithelializationInfection:no local signs of infectionDepth:superficialArea:without specialties

Summary:

After the start of local therapy with the "Wound – Sanitizer", rapid removal of deposits and signs of infection. Until the end of the bservation period, rapid increase in epithelialization. Additional therapy: compression

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<u>Case 12</u>

Diagnosis:Ulc.crur.venSex:maleLocalization:Lower leg rightDuration:5 weeks

<u>Day 0</u>



Exudate:	little
Wound base:	plaque
Infection:	local redness
Depth:	superficial
Area:	slight redness

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<u>Case 12</u> Day 7



Exudate:littleWound base:plaqueInfection:no local infection signsDepth:superficialArea:without special ties

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<u>Case 12</u> Day 14



Exudate:littleWound base:occupied, granulationInfection:no local infection signsDepth:superficialArea:without specialties

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<u>Case 12</u> Day 21



Exudate:littleWound base:slightly occupied, granulation, massive increase in epithelializationInfection:no local signs of infectionDepth:superficialArea:without specialties

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<u>Case 12</u> Day 28



Exudate:littleWound base:granulation, almost complete epithelializationInfection:no local signs of infectionDepth:superficialArea:no special features

Summary:

Rapid reduction of signs of infection. Removal of coverings without additional measures. Unusually rapid epithelialization up to almost wound closure during the observation period. Additional measures: Compression

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Summary of the observation results:

<u>Goal:</u>

The recognition of the spectrum of action of the "Wound Sanitizer" in the routine treatment of chronic and secondary healing wound patients. Reactions to inflammation and infection, as well as healing tendencies in terms of granulation and epithelialization. Likewise, changes in the wound environment in the range of the pH value

- 1. Very rapid decrease in the signs of infection
- 2. Inflammation of the skin is reduced in the shortest possible time without additional measures with steroids
- 3. In the case of wounds that are difficult to heal, a positive progression of wound healing could be observed.
- 4. In many cases, wound closure occurs in a very short time
- 5. Fibrin coatings are reduced, granulation and epithelialization are promoted.
- 6. The application is simple and does not require any specially trained personnel
- 7. The **pH value decreases** with each treatment, so that it can be assumed that there is already **stimulation of wound healing** during the treatment.
- 8. No intolerances were found
- 9. The use was classified by the patients as not noticeable to pleasant.
- 10. The pain situation could be improved in a short time

In view of previous observations, the "Wound – Sanitizer" can be recommended for the local therapeutic treatment of secondary healing wounds, chronic wounds, infected wounds and inflammation of the skin as a supporting additional measure.

USP:

There is very good data on cold atmospheric plasmas, which prove that microorganisms are reduced, and wound healing is promoted by the reaction with the plasma-producing gas.

The Wound Sanitizer differs from other plasma devices on the market in that the plasma is applied to the wound surface in enriched aerosols. This prevents and delays primary adhesion, which is essential for the formation of biofilms.

Also known is the positive effect of plasmas in combination with hyper/hypochlorous acidsolutions on wound healing and reduction of microorganisms.

With the Wound Sanitizer there is the possibility to combine this combination and apply it directly to the wound. Future treatment options are also possible through this type of plasmaproduction

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