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# EUROPEAN BUSINESS COUNCIL

STRATEGIC COOPERATION & TECHNOLOGY TRANSFER

## ANNEX 3

DETAILED TECHNICAL BRIEFING  
Health & Bio-Medical Innovation

ISSUED TO: His Excellency President Yoweri Museveni & The Cabinet of Uganda

DOCUMENT PROTOCOL: EBC-UGA-2026-V03

SECURITY CLASS: CONFIDENTIAL - RESTRICTED STATE PROTOCOL

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## 1. Executive Summary & Strategic Vision

Managing biological hazards and preventing Hospital-Acquired Infections (HAIs) are vital pillars of national biosecurity. This vertical introduces advanced Electro-Chemically Activated (ECA) saline water disinfection technology, replacing toxic chemicals with physical biocompatible sanitizers to protect clinical environments, water supplies, and patient health.

## 2. Strategic Project Portfolios

The following sections present the detailed technical catalogs, operational parameters, and physical assets for each strategic project under this vertical. The technical structures have been compiled from original engineering designs, and deployment models are aligned with the Ugandan national priorities.

### Project 3A: Active Bio Medical Solutions

Active Bio Medical Solutions introduces a revolutionary class of sanitizers and sterilization compounds designed to safeguard clinical environments. Traditional chemical disinfectants are often toxic, corrosive, and lead to the emergence of highly resistant bacterial strains. Our solutions utilize physically-acting, high redox potential compounds that physically rupture cellular membranes of pathogens, completely eliminating the risk of bacterial mutation and the development of superbugs. The solutions are completely alcohol-free, non-volatile, and safe, eliminating skin irritation or toxic fumes. They are widely used to sterilize intensive care units, operating theaters, and sterile medical manufacturing lines.



# DISINFECTION

PRODUCTS



# OPERATION THEATRE



## Application Area:

It replacing effectively product for ozone, hypochlorite, and other disinfectant products;  
High redox potential;  
It detects high quality of hygiene in Hospital areas;  
It effectively removes bacterial aphids;

## Active Components:

- K1 microbiological
- Bio Aqua



## Effectiveness

- Daily disinfection to prevent negative microorganisms ;
- It is characterized by a broad spectrum range against fungi, bacteria and viruses ;
- Powerful sporadic solution compared to other disinfectants ( Giardia, Cryptosporidium ) ;
- Reliable cleaning of surfaces in bedrooms of patients in hospitals ;
- It effective to disinfect operation places and areas ;



## MEDICAL FACILITIES



**Application Area:**  
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High redox potential;  
It detects high quality of hygiene in Hospital areas.  
It effectively removes bacterial aphids;

**Effectiveness**

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- Reliable cleaning of surfaces in bedrooms of patients in hospitals;
- It effective to disinfect operation places and areas;

**Active Components:**

- K1 microbiological
- Bio Aqua



## INDOOR SANITATION




**Application Area:**  
Sanitize and protect from the various pathogens and bacterial spores;  
Effective to use indoor and common bedrooms of penitentiary establishments, military barracks.

**Effectiveness**

- Wide range action against bacteria and viruses in penitentiary establishments and military barracks ;
- Strong sporadic effect (Giardia Cryptosporidium) ;
- Does not irritate skin, eyes and mucous membranes by forming non-toxic side effects (chlorides - Cl-, chlorites - ClO<sub>2</sub>, chlorates - ClO<sub>3</sub>-) ;
- Does not cause corrosion of metallic surfaces (oxidation) ;

**Active Components:**

- K1 microbiological
- Bio Aqua



# POOLS

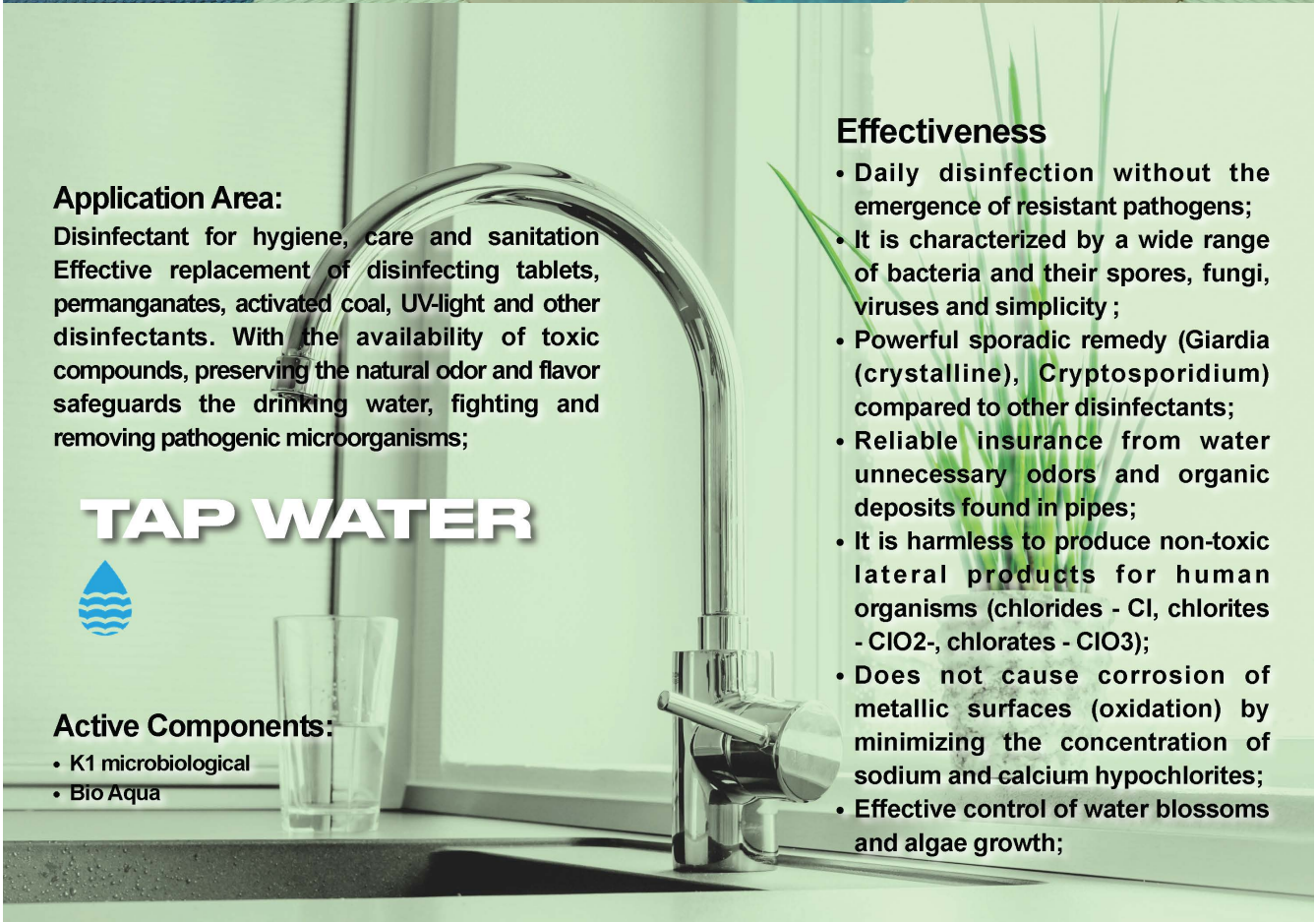

## Effectiveness

- Strong sterilization without chlorine smell;
- The most effective disinfectant and strongest oxidant of all chlorine- containing agents;
- Powerful, sporadic solution ( Giardia, Cryptosporidium) compared to other disinfectants;
- Effectively controls the water flowing and algae growth process;
- In contrast of chlorine, this method is particularly suitable for sensitive skin, eyes and mucous membranes;
- Does not cause corrosion of metallic surfaces (oxidation);

**Application Area:**  
Strong sterilization and oxidant;  
Very effective against bacteria and viruses;  
Highly effective as a sporicidal agent, eliminates bad tastes and odors;  
Removes biofilm from sides of the pool walls;

**Active Components:**

- K1 microbiological
- Bio Aqua Activated



# TAP WATER


## Effectiveness

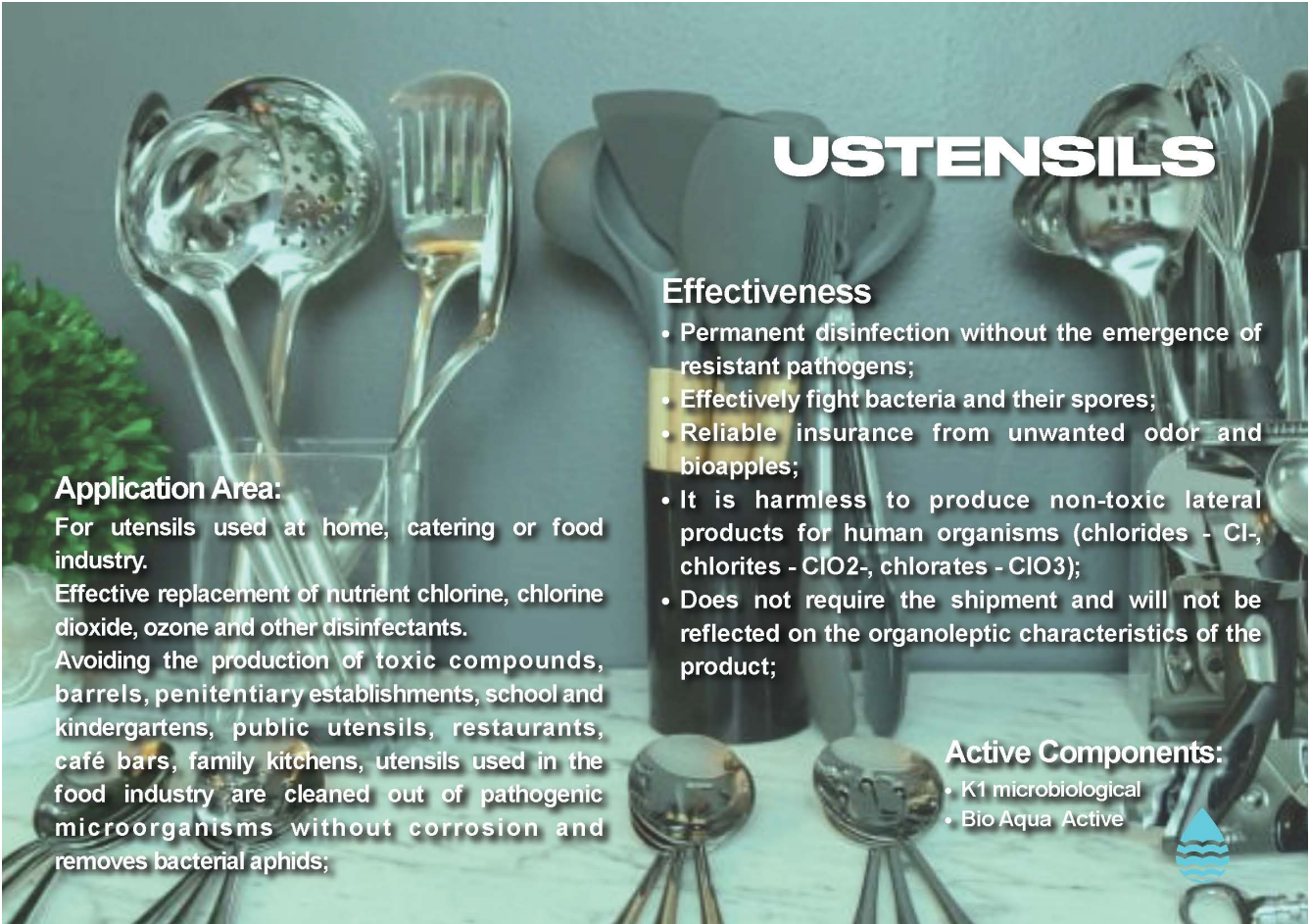
- Daily disinfection without the emergence of resistant pathogens;
- It is characterized by a wide range of bacteria and their spores, fungi, viruses and simplicity ;
- Powerful sporadic remedy (Giardia (crystalline), Cryptosporidium) compared to other disinfectants;
- Reliable insurance from water unnecessary odors and organic deposits found in pipes;
- It is harmless to produce non-toxic lateral products for human organisms (chlorides - Cl, chlorites - ClO<sub>2</sub>-, chlorates - ClO<sub>3</sub>);
- Does not cause corrosion of metallic surfaces (oxidation) by minimizing the concentration of sodium and calcium hypochlorites;
- Effective control of water blossoms and algae growth;

**Application Area:**  
Disinfectant for hygiene, care and sanitation  
Effective replacement of disinfecting tablets, permanganates, activated coal, UV-light and other disinfectants. With the availability of toxic compounds, preserving the natural odor and flavor safeguards the drinking water, fighting and removing pathogenic microorganisms;

**Active Components:**

- K1 microbiological
- Bio Aqua





## USTENSILS


**Application Area:**  
For utensils used at home, catering or food industry.  
Effective replacement of nutrient chlorine, chlorine dioxide, ozone and other disinfectants.  
Avoiding the production of toxic compounds, barrels, penitentiary establishments, school and kindergartens, public utensils, restaurants, café bars, family kitchens, utensils used in the food industry are cleaned out of pathogenic microorganisms without corrosion and removes bacterial aphids;

**Effectiveness**

- Permanent disinfection without the emergence of resistant pathogens;
- Effectively fight bacteria and their spores;
- Reliable insurance from unwanted odor and bioapples;
- It is harmless to produce non-toxic lateral products for human organisms (chlorides - Cl-, chlorites - ClO<sub>2</sub>-, chlorates - ClO<sub>3</sub>);
- Does not require the shipment and will not be reflected on the organoleptic characteristics of the product;

**Active Components:**

- K1 microbiological
- Bio Aqua Active



## DISINFECTION OF RESERVOIRS

FOOD INDUSTRY

**Application Area:**  
Innovative, safe and ecologically clean product for disinfecting reservoirs in the food industry. Effective replacement of nutrient chlorine, chlorine dioxide, ozone and other disinfectants. Reacting to the production of toxic compounds, reactors, pipes and other vessels used in the food industry cleans away from pathogenic microorganisms without corrosion, removes bacterial aphids.

**Effectiveness**

- Constant disinfection without with resistance against microorganisms;
- Its very effective against the pathogen microorganisms appearing in food industry;
- Effective against undesired odor and biofilms;
- Cleaning of CIP-systems without corrosion;
- Cleaning surfaces of reactors, tubes and other inventories without damage;
- It is used in dairy productions, Beer factories bakeries;

**Active Components:**

- K1 microbiological
- Bio Aqua Activated



# DISINFECTION OF WATER SUPPLY SYSTEM

## Application Area:

Effective alternative of chlorine gas, UV-rays, chlorine dioxide, chloramine and hypochlorite. Strong sterilization and oxidant. Very effective against bacteria and viruses. Highly effective as a sporicidal agent. Eliminates bad tastes and odors. Removes biofilm. Non-toxic product: chlorites (ClO<sub>2</sub>) and chlorates (ClO<sub>3</sub>). No acute or chronic toxic behavior when diluted water.

## Effectiveness

- The solution penetrates tiny pores of the water pipes or any other material.
- Eliminates biofilm and algae from the distribution system.
- Water pipes and equipment don't have to be rinsed with water after sanitizing.
- Doesn't harm the original, natural properties of the water.
- Eliminates chlorine taste and odor, improves taste and odor from algae.
- Can be stored and kept for further use when the necessity arises.
- Easy application.
- High level of safety: no hazardous chemicals produced or used.

## Active Components:

- K1 microbiological
- Bio Aqua Activated



## Application Area:

Effective, safe and complete replacement chlorine based sanitization products. Sanitize and protect internal spaces of civil and freight transport from the various pathogens and bacterial spores.

## Effectiveness

- Effective, safe and complete Sanitization without chlorine smell. Wide range action against bacteria and viruses.
- Strong sporadic effect (Giardia Cryptosporidium).
- Does not irritate skin, eyes and mucous membranes by forming non-toxic side effects (chlorides - Cl-, chlorites ClO<sub>2</sub>, chlorates - ClO<sub>3</sub>-).
- Does not cause corrosion of metallic surfaces (oxidation).

# TRANSPORT SANITATION

## Active Components:

- K1 microbiological
- Bio Aqua Active



## Key Technical Parameters & Specifications:

Technical Parameter	Specification / Performance Capability
<b>Microbial Kill Rate</b>	Complete 99.999% destruction of Staphylococcus, Streptococcus, Pseudomonas, and Candida albicans.
<b>Pathogen Contact Time</b>	Rapid sterilization achieved within 30 seconds of application on non-porous surfaces.
<b>Alcohol Concentration</b>	0% alcohol; completely non-drying to skin, non-toxic, and odorless for sterile hospital spaces.
<b>Surface Compatibility</b>	100% non-corrosive on surgical stainless steel, sensitive copper electrodes, and cleanroom polymer walls.

## Project 3B: Bendis Antimicrobial Materials

The Bendis portfolio provides advanced antimicrobial textiles, bed sheets, hospital furniture coatings, and wound care dressings. By embedding nano-silver and zinc active biocides into fabric fibers and polymer matrices, Bendis products actively repel and inhibit bacterial growth, preventing cross-contamination in high-risk zones. This dual-action biocide framework reduces Hospital-Acquired Infections (HAIs) by up to 75% in operating rooms, pediatric wards, and intensive care units. The anti-microbial treatment is integrated at the molecular level, ensuring that sheets and gowns retain their biosecurity performance even after 150 high-temperature industrial laundry cycles.

YOUR FUTURE IS CREATED BY WHAT YOU DO TODAY NOT TOMORROW

### THE IMPACT OF OUR TECHNOLOGY ON MEDICAL DEVICE

X 100      X300      X2.000

IMPREGNATION WITH NANOPARTICLES



## INTRODUCTION

Most companies today seek to perform all operations with the highest competitiveness. This has come to be a very interesting part to rethink strategies and redouble efforts. Our Company in an effort to achieve their objectives and goals in the short, medium and long term, developed a business plan that is directly aimed at launching innovative products developed with our technology for the health industry as described below. This document is to define the business intended to achieve objectives, strategies and also the actions to be implemented to achieve those objectives will be established. This document required a prior process of study, reflection and decision making that will be further discussed.

Our company has almost 28 years of activity.

Still, our values remain unchanged since 1996: we promote innovation and sustainability and our client is the focus point in all processes.

We are dedicated to our progress and the progress of our clients during unique business activities.

With four main activity domains, our company will make all the necessary efforts to reach its objective and to grow an intelligent ecologic life style, respecting all the security conditions, starting from the unique technology that is the base of our activity.

We have a direct communication with our clients in order to anticipate their hidden needs and to use innovation for building solution systems and complete services. In a strong cooperation with our partners, we will continue to enrich the diversity of services and products, developing new ideas, products and solutions to respond to the needs of our clients, for the present and for the future.

Since our birth, in 1996, all our activities were developed according to our management philosophy that is for us an obligation to contribute through our actions to the enrichment of the human life and to the progress of the society.

We put "people" in the center of our activities and "people's life" is the main business axis.

Thus we will continue to offer them a superior living standard. This is GROUP'S commitment and this will be our commitment for years to come.

We do want to offer solutions for "a better life" in Romania and abroad, satisfying the need of every client. Inside the variety of spaces where our clients spend their time: home, office, supermarkets, cars, plane, the city landscape, we will offer unique products and complete solutions, including software and services.

We will develop our concept

### **" A Stable Partner in A Changing World "**

to respond to every client's needs.

In order to implement our concept, we will use strong advantages that our company developed in time and also the strong advantages of our partners. Combining our efforts and the efforts of our partners, we intend to develop "innovation in a combination of values".

This is the new and arduous mission we embrace for our clients.

While developing activities, we also continuously upgrade the image of our company, which is very different from the companies activating on the market.





PAGE 1

## ANTIMICROBIAL DRESSING

WITH 9 - 21 LAYERS OF ABSORPTION

DEPTH TREATMENT BETWEEN  
1.5 - 4 CM, CONTINUOUS  
FOR UP TO 14 DAYS



PAGE 2

## STAPHYLOCOCCUS AUREUS

APPLICATION ON "IN VITRO" CULTURE MEDIA

STAPHYLOCOCCUS AUREUS



STAPHYLOCOCCUS AUREUS



PAGE 3

## CHLAMYDIA

APPLICATION ON "IN VITRO" CULTURE MEDIA



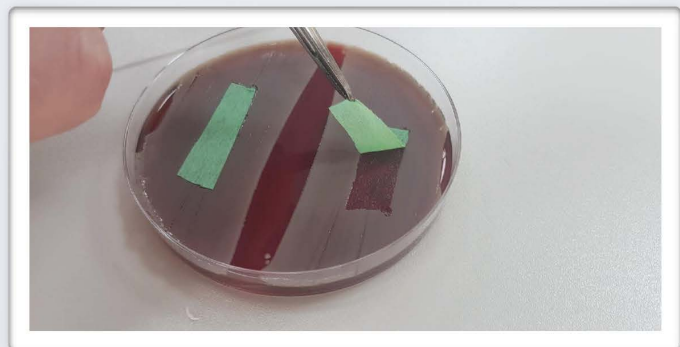
CHLAMYDIA



PAGE 4

## BETA - HEMOLYTIC STAPHYLOCOCCUS GROUP A

GRAM POSITIVE APPLICATION ON CULTURE MEDIA "IN VITRO"



PAGE 5

## CULTURE OF INFECTED PURULENT WOUND

APPLICATION ON "IN VITRO" CULTURE MEDIA



PAGE 6

## KLEBSIELLA

APPLICATION ON "IN VITRO" CULTURE MEDIA





PAGE 7

### E-COLU

APPLICATION OF THE VITRO CULTURE MEDIA



PAGE 8

### ANTIMICROBIAL DRESSING

ANTIMICROBIAL EFFECT, ANTIMICROBIAL BARRIER, REDUCES INFLAMMATORY AND PAIN, CELLULAR AND TISSUE REGENERATION.

#### INDICATIONS

##### WOUNDS

- 1st degree deep
- Acute chronic
- Infected with or increase risk of infections
- With exposure
- Analgesic
- Compromised immune patients
- Diabetic
- Diabetic patient with poor peripheral circulation
- Trauma



##### POSTOPERATIVE

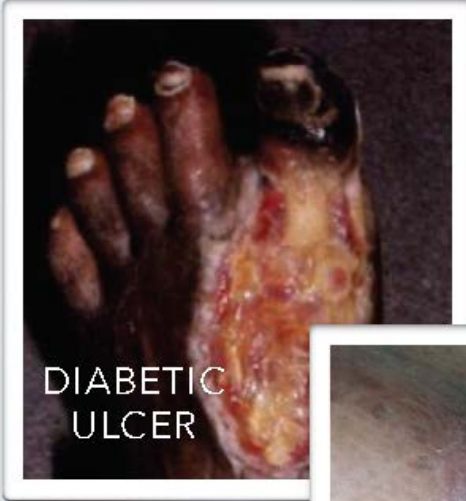
- Infection at the sites of medical devices
- Colostomy to hasten rephostomy
- Breast dressing to be post surgical
- Central peripheral and dialysis catheters
- Osteosynthesis pins
- Post surgical



## INDICATIONS

PAGE 9

VARICOSE ULCER, DIABETIC ULCER, PRESSURE ULCER, BED SORES, UNHEALED AMPUTATION BLUNT, BURNS, ETC.



## INDICATIONS

PAGE 10

VARICOSE ULCER, DIABETIC ULCER, PRESSURE ULCER, BED SORES, UNHEALED AMPUTATION BLUNT, BURNS, ETC.





PAGE 11

## ANTIMICROBIAL DRESSING

AN ANTIMICROBIAL DRESSING, AN ANTIMICROBIAL BARRIERS, REDUCES INFLAMMATION AND PAIN, CELLULAR AND TISSUE REGENERATION.

### MECHANISM OF ACTION

- Apoptosis (Cell Death): Stimulation of mitochondria to produce immune substances that induce apoptosis of infected cells.
- Alteration of mitochondrial functions: By releasing catabolic enzymes, cessation of bioenergetic functions and redox reactions of the mitochondria lead to the death of infected cells.
- Cell lysis: By denaturing cell membrane proteins that produce cell lysis and the destruction of infected cells.
- Alteration of cellular functions: By denaturing enzymes, inhibiting protein synthesis and cellular metabolic processes, thus killing bacteria.

### ACTION

- Antiseptic;
- Antimicrobial;
- Anti-inflammatory, pain reduction;
- Against antibiotic resistant bacteria:
- Methicillin resistant Staphylococcus Aureus (MRSA) suppressing its colonisation and the formation of toxins;
- Vancomycin resistant Enterococcus (VRE);
- Anaerobic and aerobic strains, fungi, viruses and a wide range of bacteria.



PAGE 12

## DIABETIC FOOT

Estimates show that approximately 210 million people worldwide suffer from diabetes.

As they develop, complications specific to the diabetic foot such as Diabetic neuropathy, loss of sensation in the legs and Diabetic Arterioopathy (alteration of the peripheral arterial circulation) are seen in 146 million.

Of these 210 million, 100 million can become infected, resulting in hospitalisation in 10 million.

Each 100 patients with diabetes the end is amputation in 10 million.

Every 20 seconds in the world a person loses his leg through amputation due to the complications of diabetes in 131.170 million/year.

Mortality among patients who have undergone amputation increases progressively in the first five years, reaching 50% after 10 years.



DIABETIC FOOT

4 W

CLINICAL CASE

PAGE 13

DIABETIC NEUROPATHIC ULCER, PLANTAR ULCER,

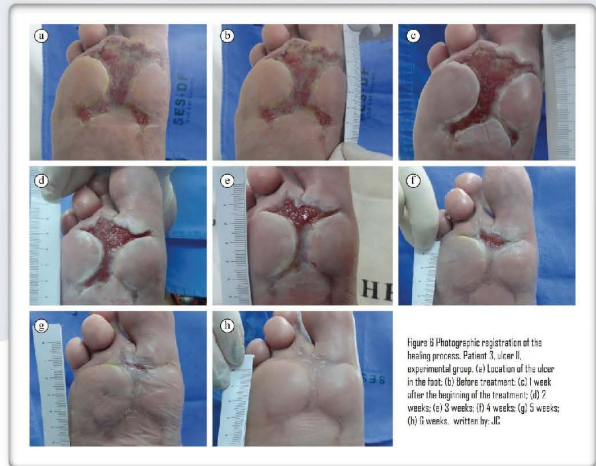
DIABETIC NEUROPATHIC ULCER

8 W



PLANTAR ULCER

6 W



CLINICAL CASE

PAGE 14

DIABETIC PATIENT 30 W





### CLINICAL CASE

PAGE 15  
DIABETIC PATIENT

#### SUPRA INFECTED ULCERATION - 12W



#### ULCERATION - 4W



### CLINICAL CASE

PAGE 16  
DIABETIC PATIENT

#### POST CARDIAC SURGERY

#### ULCERATION - 6W



#### ULCERATION - 8W



#### FACIAL SCAR - 6W



#### AFTER SURGERY - 2W





PAGE 17

## CLINICAL CASE

DIABETIC PATIENT

### ULCERATION - 12W



### POST SURGERY - 7 DAYS



PAGE 18

## ENSURE A STERILE ENVIRONMENT THROUGHOUT THE APPLICATION PERIOD

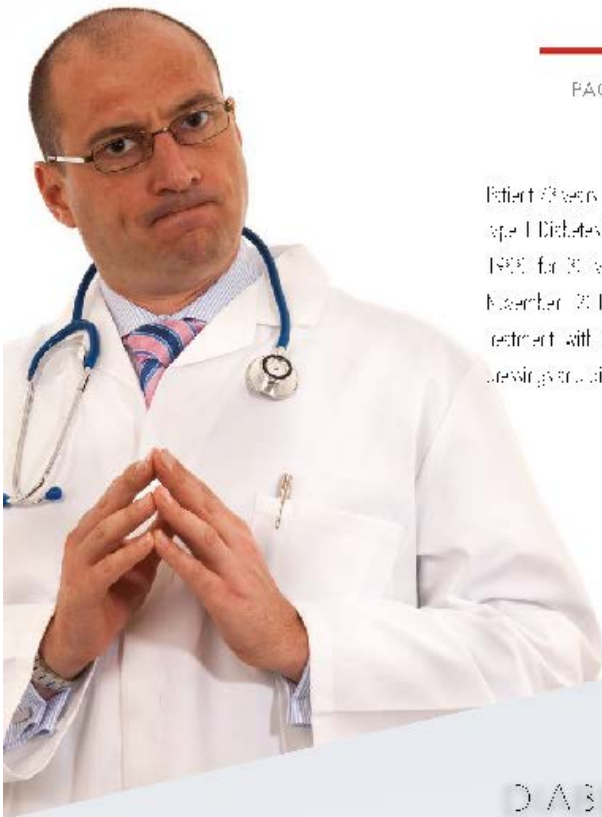
Antimicrobial activity, sustained and effective against a wide range of anaerobic, aerobic strains, including those resistant to antibiotics throughout the application period:

- ☼ Methicillin resistant Staphylococcus Aureus [MRSA]
- ☼ Vancomycin resistant Enterococci [VRE]
- ☼ Filamentous fungi

### ANTIMICROBIAL SPRAY ACTIVE PH- CONTROL



CONTINUOUS TREATMENT FOR UP TO 14 DAYS, FOR A SINGLE APPLICATION



### CLINICAL CASE

PAGE 19

DIABETIC ULCER, FIRST APPLICATION, MAY 27, 2018

Patient 70 years  
type 1 Diabetes Mellitus, insulin dependent since  
1990 for 30 years. Diabetic Ulcer with depth in  
November 2016 for 1 year and 6 months  
treated with antibiotics and various types of  
dressing and treatments.



### DIABETIC ULCER

MAY 27, 2018

### CLINICAL CASE

PAGE 20

DIABETIC ULCER, FIRST APPLICATION, MAY 27, 2018



### DIABETIC ULCER

MAY 31, 2018 EVERY 15 DAYS



### DIABETIC ULCER

JULY 12, 2018 EVERY 15 DAYS



### DIABETIC ULCER

JULY 22, 2018 COMPLETE  
RE-EPIHELIALISATION IN  
27 DAYS



## VARICOSE ULCER

PAGE 21

Varicose Ulcers, also called leg ulcers, is the most common type of skin ulcer. This type of open wound, with ulcers, healing generally affects older people and is more common in women.

About 1 in 10 people develop varicose ulcers some point in their lives.

15-18% of people over 60 years in America, respectively 37% in Europe, people of which 6-7% people develop varicose ulcers some point in their lives.

According to the WHO (2013) October 2013.

Varicose Ulcers can be painless or painful.

Without treatment the ulcers can enlarge reaching in extreme cases to disability.

Varicose ulcers generally appear on the ankle and the malleolus part of the foot close the ankle.

The ulcer is usually superficial irregular with fibrinous or necrotic appearance.

The edges wounds are well defined from the surrounding skin can be asymptomatic swollen or hardened, dark red, hyperpigmented, brown, or whitish-yellow exudate and varicose veins usually accompany the ulcer. The patient may have pain in the legs after the day, night, or at rest.

Despite proper treatment there are cases where ulcers can not heal.

In these situations the goal of treatment is to keep the wound under control, prevent infection, and ensure the patient's comfort as much as possible.

## CLINICAL CASE

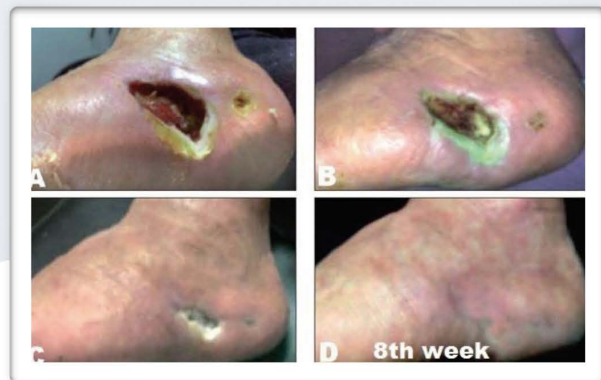
PAGE 22

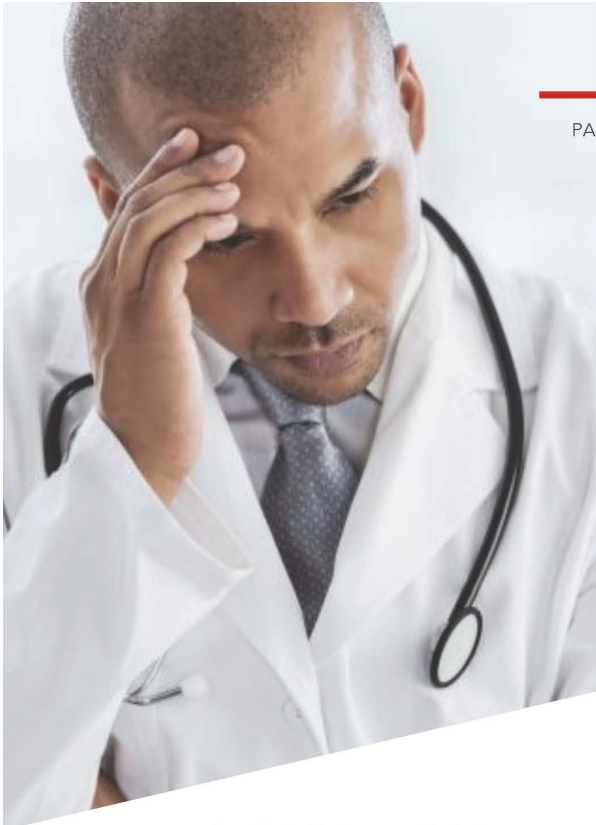
VARICOSE ULCER EVOLUTION



VARICOSE ULCER EVOLUTION AT 79 DAYS

### VARICOSE ULCER - 8W





### CLINICAL CASE

PAGE 23

VARICOSE ULCER, FIRST APPLICATION AUGUST 28, 2019

Patient 65 years old

Poor peripheral circulation, since 2016

Detralex

Varicose Ulcer diagnosed in May 2019

Ulcer through minor trauma

Classic treatment with Antibiotics and dressing every 3 days, with various types of dressings and ointments, from August 1, 2019 the patient no longer benefits from medical leave.

Pain that requires anti-inflammatory and analgesic in the morning and evening.



### VARICOSE ULCER

AUGUST 28, 2019

### CLINICAL CASE

PAGE 24

VARICOSE ULCER, FIRST APPLICATION, AUGUST 28, 2019



### VARICOSE ULCER

SEPTEMBER 26, 2019 AT 9 AM 11 DAYS

REDUCED PAIN, WITH LOW ANALGESIC AND ANTI-INFLAMMATORY DRUGS ONLY IN THE MORNING FROM THE DOUBLE DOSE MORNING AND EVENING

### VARICOSE ULCER

AUGUST 14, 2019 AT 11 DAYS

REDUCED PAIN, WITH LOW ANALGESIC AND ANTI-INFLAMMATORY DRUGS ONLY IN THE MORNING FROM THE DOUBLE DOSE MORNING AND EVENING



### CLINICAL CASE

PAGE 25

VARICOSE ULCER, FIRST APPLICATION, AUGUST 28, 2019



### VARICOSE ULCER

OCTOBER 10, 2019 A 6 MONTHS AND 3 WEEKS

MISSING PAIN, WITHOUT ANALGESIC AND ANTI-INFLAMMATORY WORKS 12 HOURS IN CELECOXIB AND PELLEURS FREE



### VARICOSE ULCER

DECEMBER 15, 2019 A 6 MONTHS AND 3 WEEKS

MISSING PAIN, WITHOUT ANALGESIC AND ANTI-INFLAMMATORY WORKS 12 HOURS IN CELECOXIB AND PELLEURS FREE

### CLINICAL CASE

PAGE 26

VARICOSE ULCER, FIRST APPLICATION, AUGUST 28, 2019

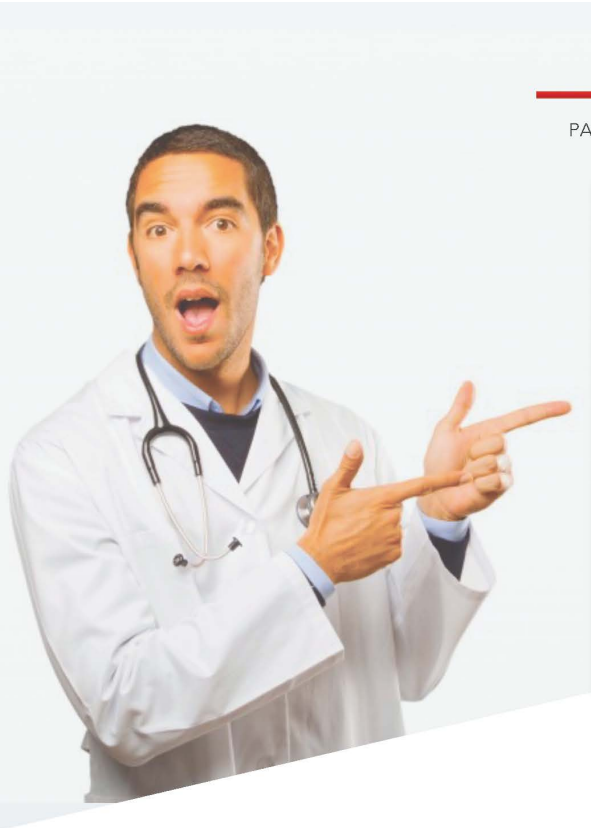


### VARICOSE ULCER

FEBRUARY 15, 2020 A 6 MONTHS AND 3 WEEKS

MISSING PAIN, WITHOUT ANALGESIC AND ANTI-INFLAMMATORY WORKS 12 HOURS IN CELECOXIB AND PELLEURS FREE

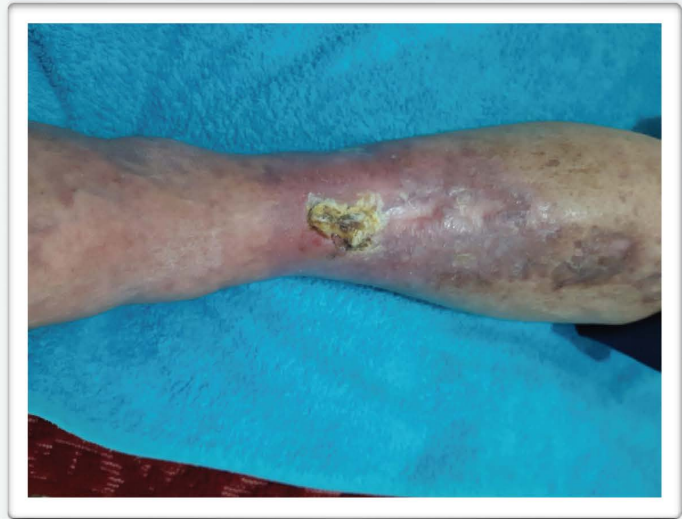




## CLINICAL CASE

PAGE 27

VARICOSE ULCER, IIRS APPLICATION AUGUST 28, 2019



## VARICOSE ULCER

MAY 11, 2020 AT 10 MONTHS AND 11 DAYS

MISSING PAIN, WITH-OUT ANALGESIC AND ANTI INFLAMMATORY WORKS 12 HOURS IN ORTH-OSTATISM AND 24 HOURS FREE !!!



## CLINICAL CASE

PAGE 28

THE BURN, FIRST APPLICATION, SEPTEMBER 28, 2019

Patient 67 years old.

Classic treatment with antibiotics and beta-lactams, rest for 1 month with dressings.

Dressing every 3 days with various types of dressings and treatments. The patient no longer benefits from medical care.

Pain that reduces artificial analgesia and analgesic in the morning and evening.



## THE BURN

SEPTEMBER 28, 2019

## CLINICAL CASE

PAGE 29

THE BURN FIRST APPLICATION SLP: LMBLR 28, 2019



### THE BURN

SEPTEMBER 28, 2019

## CLINICAL CASE

PAGE 30

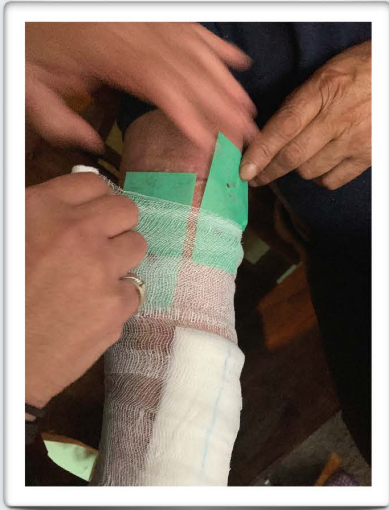
THE BURN FIRST APPLICATION: SEPTEMBER 28, 2019



### THE BURN

FIRST DRESSING: SEPTEMBER 28, 2019





PAGE 31

### CLINICAL CASE

THE BURN FIRST APPLICATION SLP LMBLR 28, 2019



### THE BURN

FIRST DRESSING SEPTEMBER 28, 2019

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### CLINICAL CASE

THE BURN FIRST APPLICATION SEPTEMBER 28, 2019



### THE BURN

FIRST DRESSING SEPTEMBER 28, 2019

CLINICAL CASE

PAGE 33

THE BUJUMBURA FIRST APPLICATION, SEPTEMBER 29, 2019



THE  
BURN  
OCTOBER 11, 2019

CLINICAL CASE

PAGE 34

THE BUJUMBURA FIRST APPLICATION, SEPTEMBER 29, 2019



THE  
BURN  
OCTOBER 11, 2019



CLINICAL CASE

PAGE 35

STAPHYLOCOCCUS AUREUS MRSA INFECTION. PATIENT OPERATED FOR TIBIA AND FIBULA FRACTURE OCTOBER 14, 2019. ANTIMETABOLIC DRESSING IS APPLIED.



OSTEOSYNTHESIS  
FNS

CLINICAL CASE

PAGE 36

LACK OF STAPHYLOCOCCUS AUREUS MRSA IN INFECTION, CLINICALLY BY PATIENT LABORATORY TESTS. OPERATED FOR TIBIA AND FIBULA FRACTURE



AFTER 13 DAYS

OCTOBER 25, 2019



## CLINICAL CASE

PAGE 37

LACK OF STAPHYLOCOCCUS AUREUS MRSA INFECTION, CLINICALLY  
BY PATIENT LABORATORY TESTS. OPERATED FOR TIBIA AND FIBULA  
FRACTURE



AFTER 18 DAYS

OCTOBER 30, 2019



## CLINICAL CASE

PAGE 38

METATARSAL AMPUTATION AND DEBRIDEMENT

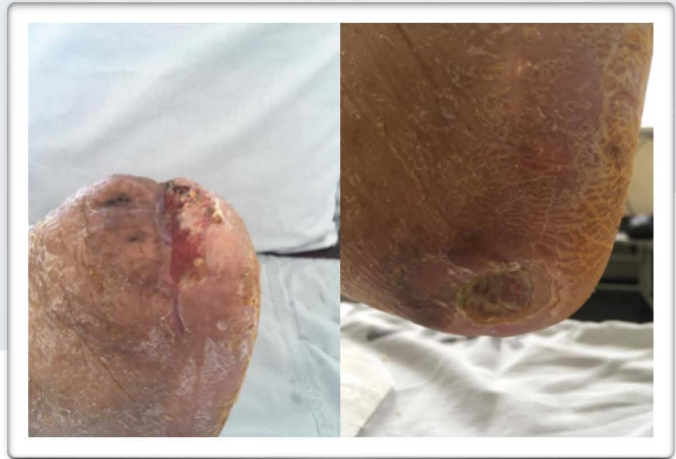




PAGE 39

### CLINICAL CASE

MULTI-ARTICULAR AMPUTATION AND PRESSURE ULCER



AFTER 10 DAYS



PAGE 40

### CLINICAL CASE

MULTIPLE METASTATIC MELANOMA, MARCH 09, 2021



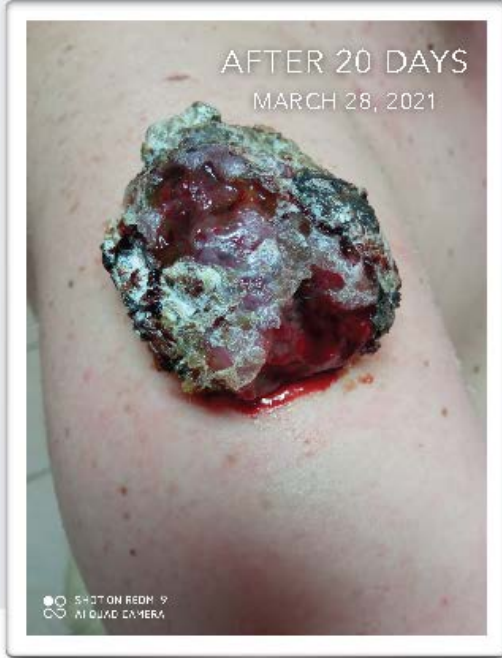
MULTIPLE MELANOMA

MARCH 09, 2021

CLINICAL CASE

PAGE 41

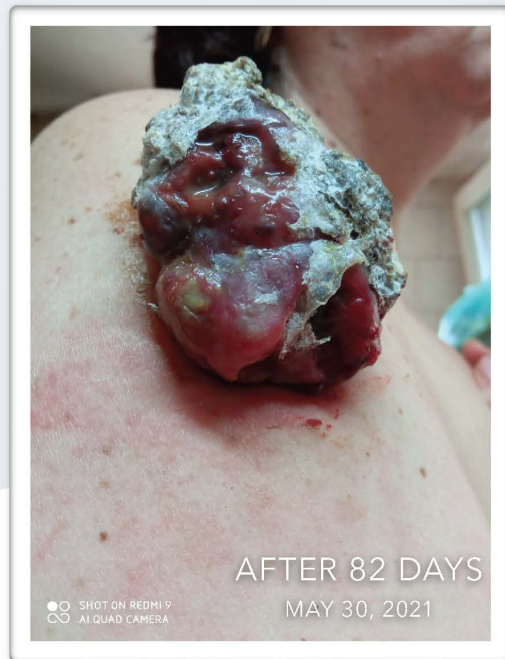
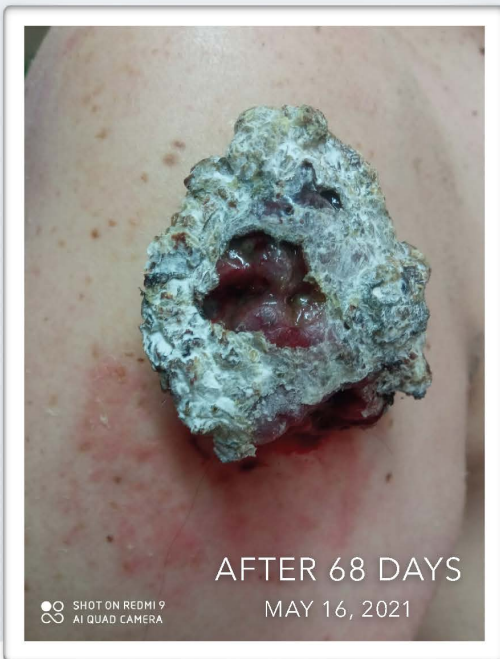
MULTIPLE DIFFERENTIAL MALIGNANCY, MARCH 09, 2021



CLINICAL CASE

PAGE 42

MULTIPLE ULCLERATED MALIGNANCY, MARCH 09, 2021

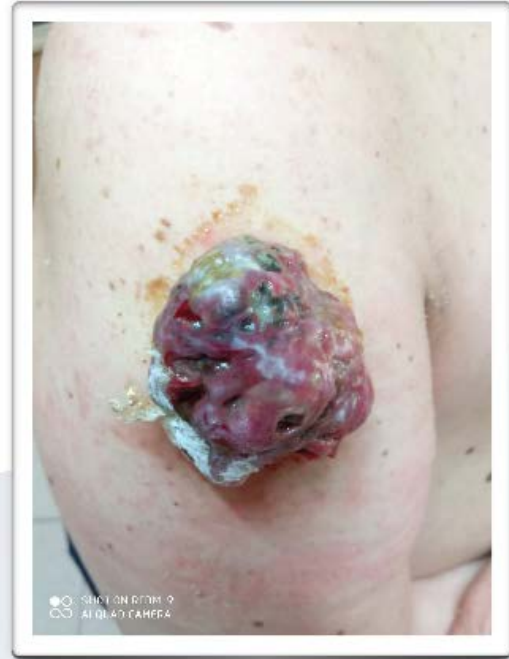




CLINICAL CASE

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MULTIPLE ULCEATED MELANOMA, MARCH 08, 2021



AFTER 89 DAYS

JUNE 06, 2021



CLINICAL CASE

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THE BURN, FIRST APPLICATION, FEBRUARY 05, 2021



THE BURN

FIRST TREATMENT, FEBRUARY 05, 2021

### CLINICAL CASE

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THE EARLIEST FIRST APPLICATION: FEBRUARY 25, 2021



### CLINICAL CASE

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THE EARLIEST FIRST APPLICATION: FEBRUARY 25, 2021





### CLINICAL CASE

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SYSTEMIC SCLERODERMA, CHEST SCLEROMA, FINGERS SCLEROMA AUGUST 28, 2020



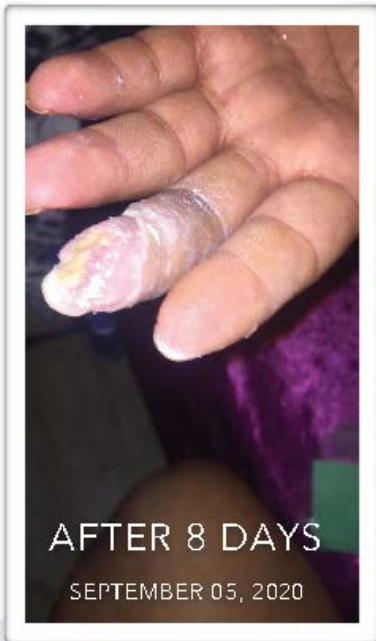
### SYSTEMIC SCLERODERMA

HHS DRESSING AUGUST 28, 2020

### CLINICAL CASE

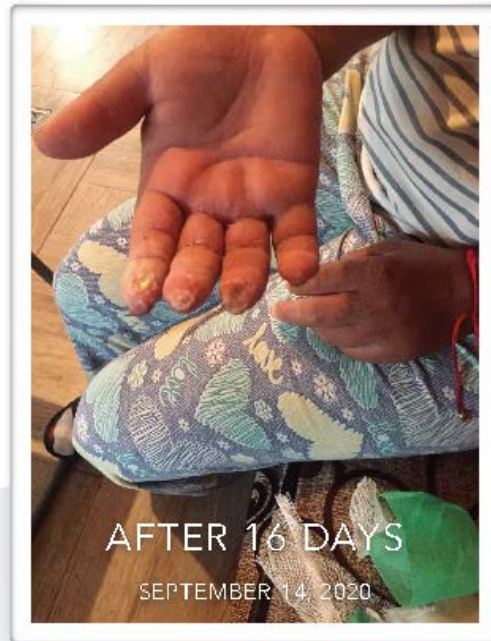
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SYSTEMIC SCLERODERMA, CHEST SCLEROMA, FINGERS SCLEROMA AUGUST 28, 2020



AFTER 8 DAYS

SEPTEMBER 05, 2020



AFTER 16 DAYS

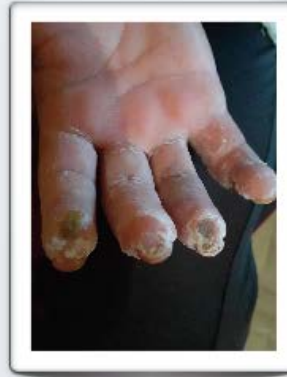
SEPTEMBER 14, 2020



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### CLINICAL CASE

SYSTEMIC SCLERODERMA, CHEST SKIN, FROME 19, 2019



AFTER 21 DAYS

SEPTEMBER 29, 2020



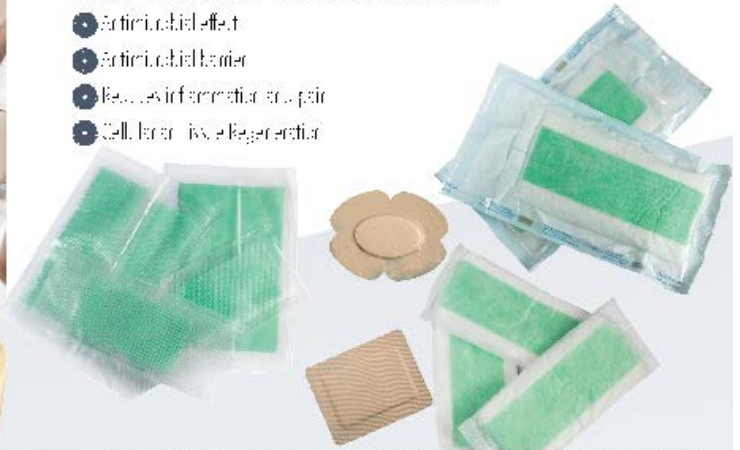
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### DEEPTH TREATMENT, UP TO 4.5 CM, CONTINUOUS FOR UP TO 14 DAYS

Wound care professionals face many challenges and a variety of products and medical textiles are being used, but few of them with Continuous Antimicrobial Protection.

Offers an innovative technology for successful wound care and surgical site infection comprising a complete and most effective solution.

- Antimicrobial effect
- Antimicrobial barrier
- Reduces inflammation on a pair
- Cellular tissue regeneration



TODAY'S WOUND CARE TREATMENTS



www.ergonix.ro  
Tel: 0371 410 015  
102  
Bucuresti, Romania

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### CONTINUOUS TREATMENT FOR 8 HOURS AFTER APPLICATION FOR MENSTRUAL CRAMPS

APPLYING AT THE BEGINNING OF THE PAIN DETERMINES IN THE FIRST 10 MINUTES REDUCTION UNTIL DISAPPEARANCE OF: MENSTRUAL CRAMPS ADDITIONAL CRAMPS



**1.6 MILLION WOMAN IN ROMANIA SUFFER FROM DYSMENORRHEA**

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### TREATMENT WITHOUT MEDICATIONS AND WITHOUT THEIR SIDE EFFECTS



- **FAST REACTION** - SUPPRESSES PAIN IN THE FIRST 10 MINUTES AFTER APPLICATION.
- **PAIN CONTROL** - CONTINUOUS AND CONSTANT EFFECT FOR 8 HOURS AFTER APPLICATION.

THERAPEUTIC INDICATIONS FOR MENSTRUAL PAIN WITH OR WITHOUT SPREADING OUTSIDE LOW BACK AREA

#### EFFECT

- **ANTI-INFLAMMATORY** - RELEASED BY PROSTAGLANDINS
- **FAST** - IN THE FIRST 10 MINUTES IT REDUCES MENSTRUAL PAIN UNTIL IT DISAPPEARS
- **PAIN CONTROL THROUGHOUT USE**
- **CONTINUOUS AND CONSTANT EFFECT FOR 8 HOURS** FROM APPLICATION.
- **BLOOD ACTIVATOR** - BY PHOTO-BIO-MODULATION IT REGULATES THE VASCULARISATION OF THE UTERUS AND RELAXES THE MUSCLES OF THE UTERUS (WHICH DURING MENSTRUATION CONTRACT DUE TO THE VASCULARISATION DEFICIT).
- **DECREASES PROSTAGLANDINS EXCESS** WHICH CAUSE ABDOMINAL PAIN, HEADACHES, WEETING, VOMITING, DIARRHEA AND HIGH LEVELS OF LEUKOTRIENES WHICH PRODUCE SMOOTH MUSCLE CONTRACTION AND ARE INVOLVED IN THE INFLAMMATORY PROCESS.

## THE PREVALENCE IN ROMANIA

1,650,450 WOMEN SUFFER FROM DYSMENORRHEA AT EACH MENSTRUAL CYCLE (REPRESENTING 40%)

Dysmenorrhea affects 1-2% of women during menstruation. Causes

problems of couple personal and public health  
High degree of absence from work and education

CONFIDENTIAL PROTOCOL OF THE EXECUTIVE OFFICE OF THE PRESIDENT OF UGANDA

### DYSMENORRHEA

PREVALENCE in Romania

According to census of October 2011 in Romania 11.5% of the population is represented by the female population, respectively 11,339,136 women.

7.35 represent the young population (age 15 - 24) 1,771,847 women and the mature population (age 25 - 64) 6,117,517 women.

Dysmenorrhea is present in at least 1/5 of the two age groups.

Young population = 11,839 women and the

Mature population = 11 years = 7,377,779 = 1,111,133 women (percentage of 15).

Total = 14,991,800 women suffer from Dysmenorrhea each menstrual cycle.

### Primary DYSMENORRHEA

It begins in adolescence shortly after menarche (first menstruation).

Characterized by pelvic pain in the form of cramps without an organic pelvic pathology.

It occurs before or with the onset of menstruation and lasts from 18 to 72 hours, being more severe at the first and second cycle of menstruation.

11.5% of post-pubertal women suffer from primary dysmenorrhea.

11.5% are required of work absents from 1 to 3 days a month.

11.5% of students report severe dysmenorrhea, which is the main cause of recurrent school absenteeism.

11.5% of patients do not respond adequately to NSAID treatment (antispasmodics or analgesics).

### Secondary DYSMENORRHEA

Due to possible lesions in the pelvic structures which explains the pain.

It can be caused by endometriosis, pelvic inflammatory disease, intrauterine lesions (irregular coils and fibroids), ovarian cysts, adenomyosis, uterine fibroids or polyps, intrauterine adhesions, cervical stenosis, high degree of infections.

Pain in secondary Dysmenorrhea usually begins a few days before the onset of menstruation and lasts throughout the menstrual cycle.

## THE PREVALENCE IN ROMANIA

1,650,450 WOMEN SUFFER FROM DYSMENORRHEA AT EACH MENSTRUAL CYCLE (REPRESENTING 40%)

### Premenstrual dysphoric disorder

It is a severe form of PMS (premenstrual syndrome) that affects 3-5% of women.

Diagnosis coincides with the luteal phase of the menstrual cycle.

A PMS that is so severe that it can be debilitating due to physical, mental and emotional symptoms.

The syndrome that persists between ovulation and menstruation disappears a few days after the onset of bleeding. It consists of irritability, anger, attention and concentration disorders, anxiety, decreased performance, couple problems which can later lead to depression and other mental disorders.

Optimal treatment is recommended, because it interferes with the patient's ability to function in social and professional life.

## ORGANIZATIONAL MENSTRUAL PAIN WITHOUT MEDICATION

Critical treatment for PMS

1 out of 5 million women with Dysmenorrhea





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## URINARY INCONTINENCE

- ☀ Male and female urinary incontinence products, keep personal comfort, offering special protection through our complete portfolio of incontinence products: disposable diapers and shorts, bedspreads, wet wipes, protective underwear and others, are designed for optimal moisture management.
- ☀ Disposable diapers and shorts, have breathable side panels for greater airflow and comfort, comfortable outer skin coverage, reduces the risk of irritation and rash, has anti leakage protectors for maximum insulation.
- ☀ Diapers and shorts for:
  - ☀ Adult and elderly;
  - ☀ Child;
  - ☀ Newborn;
  - ☀ Sizes: small, medium, large, extra large.



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## ANTI-INFLAMMATORY AND ANALGESIC

- ☀ For:
- ☀ Lumbago and pain.
- ☀ IHC:
- ☀ Knees Inflammation.
- ☀ Knees Pain.





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## HEATED INSOLE FOR THE FEET

For:

- ☼ Regulation / improvement of peripheral circulation
- ☼ Diabetic foot - Improves peripheral circulation
- ☼ Destruction of microbial flora.

EFFECT

- ☼ Peripheral dilator vessel.
- ☼ Antimicrobial.



### Key Technical Parameters & Specifications:

Technical Parameter	Specification / Performance Capability
<b>HAI Reduction Rate</b>	Clinically demonstrated to reduce Hospital-Acquired Infections (HAIs) by up to 75%.
<b>Wash Durability Cycle</b>	Retains 98.5% biosecurity efficiency after 150+ high-temperature industrial laundry cycles.
<b>Active Biocides</b>	Molecularly integrated nano-silver and zinc biocides actively destroying bacterial cell walls.
<b>Medical Certification</b>	Certified as Class I medical-grade antimicrobial textiles for surgical and clinical use.

## Project 3C: Bio Solution - Human (ECA Saline Disinfection)

This project implements state-of-the-art Electro-Chemically Activated (ECA) saline water disinfection systems. Replaces traditional toxic chlorine gas, expensive UV-light grids, and dangerous permanganate tablets with a highly active, biocompatible disinfectant (Bio Aqua). By passing slightly saline water through specialized electrolytic cells, the system generates a highly active sanitizer with a high redox potential (>900 mV). Bio Aqua physically neutralizes bacteria, viruses, and bacterial spores (such as HBV, HIV, HCV, and Giardia) in under 30 seconds. It is 100% safe on human skin, eyes, and mucous membranes, leaves zero toxic chemical residues (no chlorides, chlorites, chlorates), and preserves the natural taste, color, and odor of municipal drinking water.





The BioHealing Drink is innovative environmentally friendly, high-tech product.

Consuming Bio Healing Drink can boost energy, help life supporting function of the body and prevent diseases.

**Key Features:**

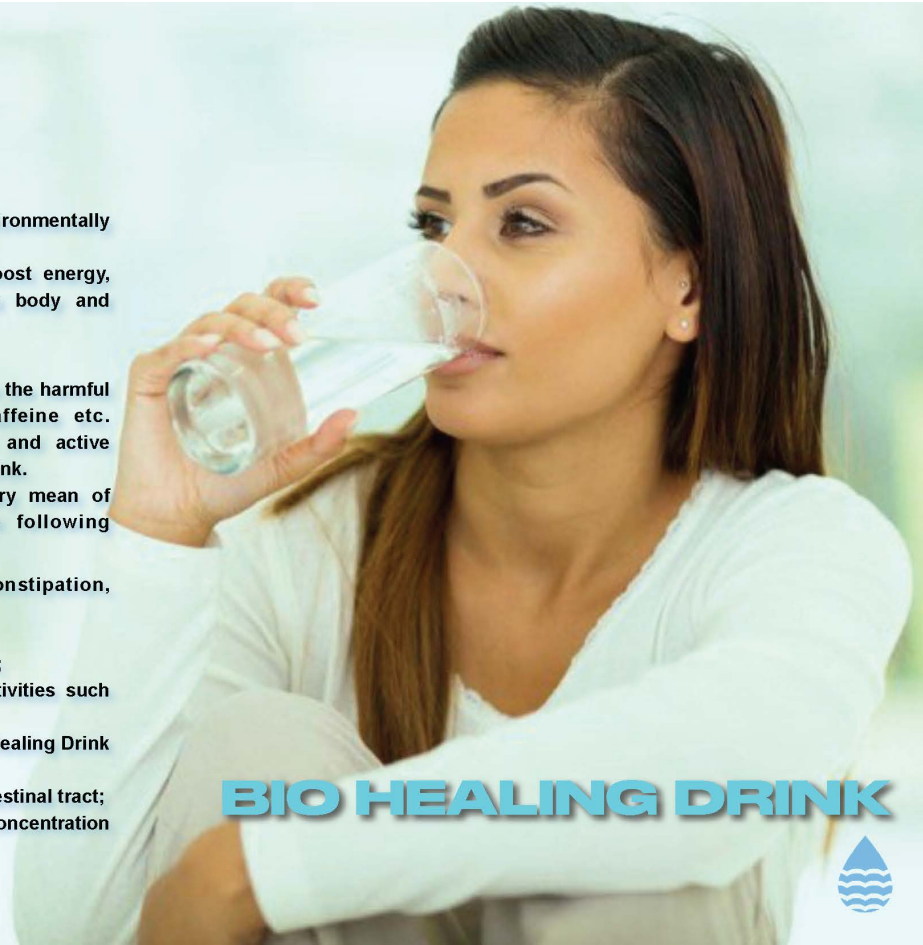
The Bio Healing Drink does not contain the harmful substances sugar ( glucose ), caffeine etc. Composing elements of pure water and active substance compound to Bio Healing Drink.

The Bio Healing Drink as an auxiliary mean of treatment is mainly used for the following purposes:

- Gastrointestinal problems e.g. constipation, diarrhea, heartburn and more;
- Cardiovascular diseases;
- Inertia, drowsiness, general weakness;
- Important and high responsibility activities such as driving, taking exams and more.

Expected positive effects of using Bio Healing Drink are:

- Regulation of pH level in the gastrointestinal tract;
- Increased energy flow, increased concentration ability;
- Improved blood pH balance.



## BIO HEALING DRINK



## HAND SANITATION

**Application Area:**

Full rapid disinfection and moisturization of hands without alcohol, only in 20-30 seconds.

Effectively eliminates every type of bacteria viruses and fungi.

**Effectiveness**

- Reliable disinfection of hand in 20 seconds; Surgical level disinfection is achieved within 30 seconds;
- Suitable for moisturizing dry skin;
- Ideal for travel and hiking;
- Used in medical facilities and after traveling to public transport;
- Used in food stores (restaurants, cafes ...);
- Does not contain harmful dyes, flavorings or irritating substances (spirits, detergents);

**Active Components:**

- K1 microbiological
- Bio Aqua Active



## INTIMATE HYGIENE

### Application Area:

Disinfectant for hygiene and microfilm regulation.

External treatment of the genital organs, protects against infections, accelerates the healing of small lesions of the skin and is characterized by moisturizing effect.

Avoidance of toxic compounds combines bacterial spores, viruses and fungi, with intimate microflora regulation.

- Skin cleansing and reliable insurance in 20 seconds;
- Suitable for moisturizing dry skin;
- It is characterized by a wide range of bacteria and their spores, such as *Candida albicans*, viruses (HBV, HIV, HCV, Herpes simplex, etc.) and simplicity;
- Removal of unwanted odor caused by microorganisms;
- Does not damage the normal microflora germinating bacteria (*Lactobacterium*, *Bifidobacterium*);
- Ideal for travel and hiking ;
- Does not contain harmful dyes, flavorings or irritating substances (spirits, detergents);
- Does not irritate skin, eyes and mucous membranes by producing non-toxic side effects (chlorides - Cl-, chlorites - ClO<sub>2</sub>-, chlorates - ClO<sub>3</sub>-);

### Effectiveness

### Active Components:

- K1 microbiological Activated
- Bio Aqua



### Application Area:

Disinfectant for the treatment of small lesions of the skin.

Is an Innovative, safe and ecologically clean products.

Rapid disinfection of damaged site from pathogenic microorganisms.

Avoid the toxic compounds, cleans your skin.

It is characterized by moisturizing effect.

## WOUNDS & SCRATCHES

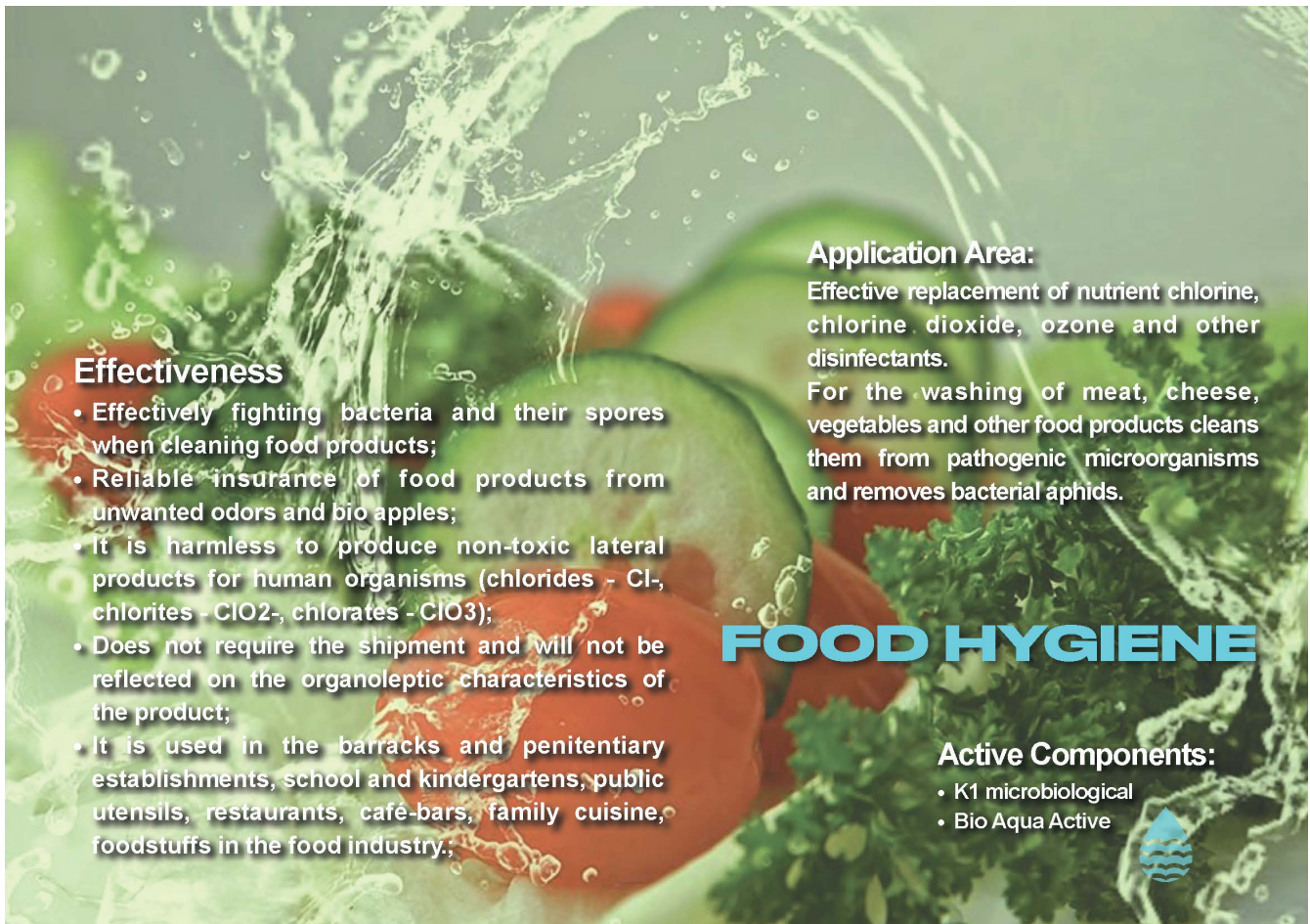
### Effectiveness

- Suitable for disinfection of damaged area for processing wound or scratch;
- It is characterized by a broad spectrum range of bacteria and their spores (*Staphylococcus*, *Streptococcus*, *Pseudomonas*, *Serratia*, etc.), *Candida albicans*, viruses (HBV, HIV, HCV, Herpes simplex, etc.) and simplicity;
- Ideal for trips and trips as a primary aid ;
- Does not contain harmful colors, flavorings or irritating substances (spirits, detergents) ;
- Does not irritate the skin and mucous membrane with non-toxic side effects (chlorides - Cl-, chlorites - ClO<sub>2</sub>-, chlorates - ClO<sub>3</sub>-);
- Suitable for hygiene related areas such as nursing care and infant care ;

### Active Components:

- K1 microbiological BioActivated
- Bio Aqua





**Effectiveness**


- Effectively fighting bacteria and their spores when cleaning food products;
- Reliable insurance of food products from unwanted odors and bio apples;
- It is harmless to produce non-toxic lateral products for human organisms (chlorides - Cl-, chlorites - ClO<sub>2</sub>-, chlorates - ClO<sub>3</sub>);
- Does not require the shipment and will not be reflected on the organoleptic characteristics of the product;
- It is used in the barracks and penitentiary establishments, school and kindergartens, public utensils, restaurants, café-bars, family cuisine, foodstuffs in the food industry.;

**Application Area:**  
Effective replacement of nutrient chlorine, chlorine dioxide, ozone and other disinfectants.  
For the washing of meat, cheese, vegetables and other food products cleans them from pathogenic microorganisms and removes bacterial aphids.

**FOOD HYGIENE**

**Active Components:**

- K1 microbiological
- Bio Aqua Active



**Application Area:**  
Complete sanitization of bathrooms in:  
Pre-trial detention and closed-type penitentiary establishments, educational institution's and kinder gardens, restaurants, public toilets, etc.

**Effectiveness**

- Sanitization bathrooms without chlorine smell;
- Wide range action against bacteria and viruses;
- Strong sporadic effect (Giardia Cryptosporidium);
- Does not irritate skin, eyes and mucous membranes by forming non-toxic side effects (chlorides - Cl-, chlorites - ClO<sub>2</sub>, chlorates - ClO<sub>3</sub>);

**SANITARY FACILITIES**

**Active Components:**

- K1 microbiological Activated
- Bio Aqua



**Application Area:**  
Useful against insects attracted to blood (mosquito, mucus, tail, fleas, bed bugs) - anti-inflammatory, repellent.

**Active Components:**

- K1 microbiological
- Bio Aqua Activated

**Effectiveness**

- Repelling of bloodsucking insects;
- Prevent the insect bites and provide the first aid;
- Curbs discomfort and itching caused by a bite of insects and nurses;
- In the case of a mosquito bite reduces swelling and itching sensation;
- In case of accidental hepatitis also protects the place from pathogenic microorganisms;

**AGAINST MOSQUITOS**

**Key Technical Parameters & Specifications:**

Technical Parameter	Specification / Performance Capability
<b>Active Compound</b>	Electro-Chemically Activated (ECA) saline solution generating active hypochlorous acid (HOCl).
<b>Redox Potential Intensity</b>	Sustained electrical charge of >900 mV, physically destroying microbial cell envelopes.
<b>Free Active Chlorine</b>	Regulated concentration of 500 ppm, maximizing sanitization without toxic vapor creation.
<b>Safety Profile</b>	0% toxic by-products; completely free of chlorides, chlorites, or carcinogenic trihalomethanes (THMs).
<b>Disinfection Speed</b>	Destroys standard viruses, bacteria, and Cryptosporidium spores within 30 seconds.

### 3. Bilateral Facilitation & Execution Model

EBC establishes licensed local manufacturing units in Uganda for direct, automated electrolysis generation of Bio Aqua. This ensures stable supplies to the Ministry of Health and regional clinical centers without shipping dependencies.

### 4. Protocol & Technical Validation Notice

**PROTOCOL ACCORD:** This strategic document is prepared under bilateral partnership guidelines and is subjected to technical audits by EBC scientific and tactical councils. The deployment parameters mentioned are mathematically validated and scale-tested across active European and regional deployment sites. Transfer of technologies is bound by sovereign bilateral agreements and international intellectual property protocols.