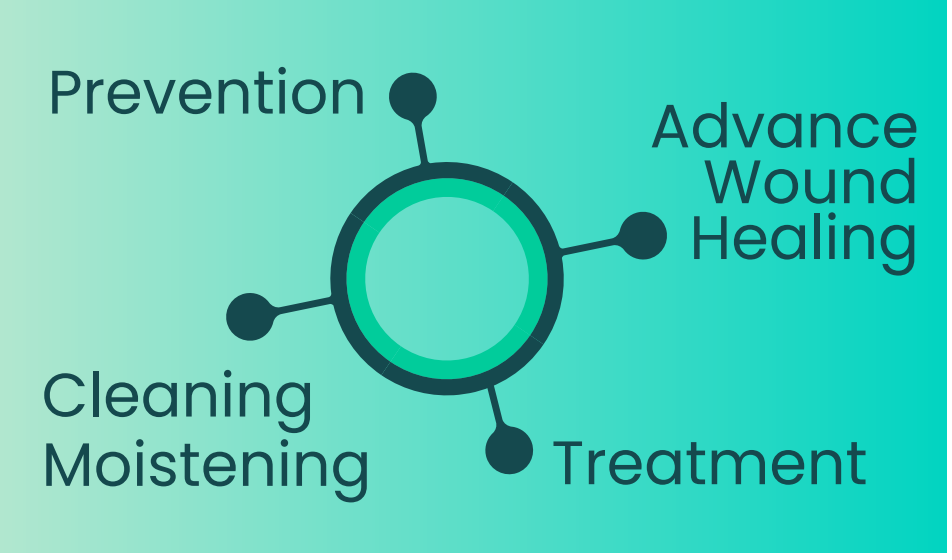


SilverStream

Solution

ACCELERATING
WOUND HEALING

WWW.GWHPCORP.COM

GLOBAL™
WHOLEHEALTH PARTNERS
Exclusive U.S. Importer & Distributor

Medical Device
MD

Reactivates Efficient Wound Healing

SilverStream® Solution

Buffered solution, with a pleasant odor, for wound management and moisturization.

SilverStream® is a clear, colorless solution, protected from microbial contamination by a low concentration of ionic silver (0.01%) and used to treat the following:

- DIABETIC ULCERS
- VENOUS ULCERS
- PRESSURE ULCERS
- TRAUMA CASES
- PREVENTION OF ULCERS*
- BURNS
- ACUTE WOUNDS
- POST SURGICAL WOUND
- COSMETIC PROCEDURES
- CUTS, ABRASIONS & MINOR SKIN IRRITATION

01 SilverStream® is a highly effective wound management solution that cleans, moisturizes, soothes, and accelerates the healing process of acute burns, hard-to-treat wounds, and chronic non-healing wounds.

02 SilverStream's innovative synergetic formulation ensures effective biofilm destruction function and provides a highly potent wound healing environment.

03 SilverStream's proprietary mechanism of action reduces inflammation and promotes granulation tissue.

04 SilverStream® is a patented wound management solution, combining a low concentration of silver ions, menthol, and glycerol plus a surfactant, dissolved in a hypertonic solution.

05 SilverStream® specialized synergistic combination of silver ions and menthol reduces the concentration level of the silver ions - to well below the cytotoxic threshold. The high concentration of the hygroscopic glycerol provides hydrogel effects.

- Destroys Biofilm
- Protected from Microbial Contamination
- Reduces Inflammation
- Reduces High Levels of MMPS**
- Promotes Granulation Tissue
- Promotes Moist Wound/Burn
- Prevents Maceration
- Accelerates Wound Healing
- Reduces Pain
- Eliminates Odor
- Penetrates Deeper into the Wound Surface
- Address different type of Wounds
- No Coloring, No Staining, No Argyria
- No Local Irritation or Allergic Reactions
- Proven Safety: Non toxic, Non cytotoxic
- Reduces Treatment Period

References:
(1) SilverStream's Anti-Biofilm Effectiveness. Evaluation of an Ionic Silver Solution against Dual Species In-Vitro Wound Biofilms. Center for Biofilm Engineering, Montana CBE – USA
(2) Thomas E.Use of an Ionic Silver Solution for Wound Cleansing and Reduction in Biomaterial. St. Vincent Hospital, Erie, PA. USA
(3) Adam Landsman. Stimulation of Quiescent and Mildly Infected Diabetic Foot and Venous Ulcers using a Wound Optimizing Irrigant. International Wound Journal
(4) Adam Landsman. SilverStream® Wound Optimizing Rinse for the Treatment of Mildly Infected and Non-Progressing Diabetic Foot Ulcers and Venous Leg Ulcers. Cambridge Health Alliance, and Harvard Medical School, Cambridge, MA
(5) Chausha Weitman Cernica. Preventing Ulcers in Bullous Erysipelas Topical Silver Stream Treatment. Hadassah Medical Center, Israel

* Bullous Erysipelas
** Matrix Metalloproteinases

SilverStream® in Action

Wound Condition before SilverStream:

2nd degree burns on the forearm of the patient tested positive on culture for Staphylococcus aureus.

Blood flow on the wound bed hampered due to eschar.

SilverStream Treatment :

20 ml SilverStream used per treatment everyday for 12 days.
Complete elimination of infection observed in 4 days. Restoration of blood flow in the wound bed was seen.
Wound size reduced by >60% in 12 days.

Steroid-Free, Antibiotic-Free

Non toxic, Non cytotoxic, Non Staining

Bacterial Log reduction in Biofilm CFU/mL after 1h of treatment		
Bacterial Strain	Saline	SilverStream
Pseudomonas aeruginosa	1.59	**4.84**
Staphylococcus aureus (MRSA)	1.66	**5.44**

The Center for Biofilm Engineering
at Montana State University demonstrated SilverStream's strong anti-biofilm effect as follows

SilverStream	MIC	MBC	Microbial limits <USP 61>	Zone of inhibition <USP 81>	Antimicrobial preservative <USP 51>
Escherichia coli	✓	✓	✓	✓	✓
Staphylococcus aureus (MRSA)	✓	✓	✓	✓	✓
Staphylococcus epidermidis	✓	✓	ND	ND	ND
Klebsiella pneumoniae	✓	✓	ND	ND	ND
Pseudomonas aeruginosa	ND	ND	✓	ND	✓
Candida albicans	ND	ND	ND	ND	✓
Aspergillus niger	ND	ND	ND	ND	✓

ND = Not Detected

Expert Opinion

> Chausha Weitman Cernica, MA, R.N
> Wound-care Coordinator
> Hadassah Hebrew University Medical Center, Jerusalem, Israel
>
> SilverStream is an effective solution for chronic ulcers preventing in case of Bullous Erysipelas. The solution is Time Saving & Cost Effective.

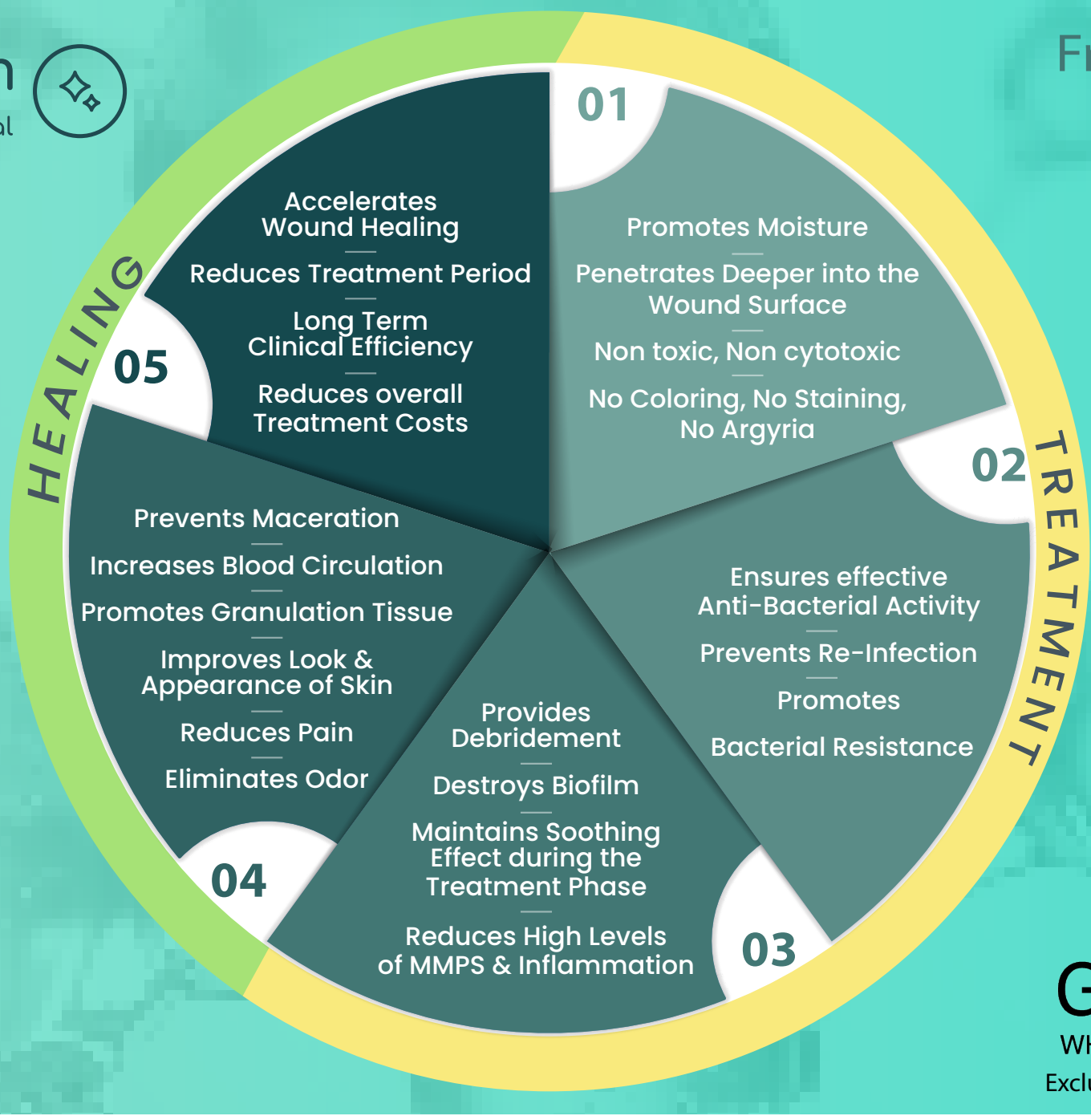
> A Study Of Silver Nitrate Solution In Dressing Of Diabetic Foot Ulcer
> Bipin Kishore Bara , Siba Prashad Pattanayak, Tapan Kumar Malla, Manoj Kumar Behera, Binoy Kumar Maharana
>
> SilverStream enhances granulation tissue formation, reduces bacterial load, increases skin graft success rate and shortens hospital stay, for DFU patients

> Ido Mizrahi, MD,
> Noemie Nalbandian, RN MPH
> Department of General Surgery
> Hadassah Hebrew University Medical Center, Mount Scopus, Jerusalem, Israel
>
> Silver stream solution offers rapid Secondary Wound Healing after pilonidal disease surgery. Cosmetic results are excellent with no recurrence.

> Adam Landsman, DPM, PhD
> Assistant Professor of Surgery, Harvard Medical School
> Division of Podiatric Surgery, Cambridge Health Alliance
>
> SilverStream is very useful for normalizing difficult wounds. The combination of ingredients has resulted in a dramatic improvement in wounds that showed essentially no signs of progress

SilverStream Medical

From Treatment To Healing



GLOBAL™ WHOLEHEALTH PARTNERS
Exclusive U.S. Importer & Distributor

SilverStream® has been authorized as a medical device by the US FDA (510K) for the management and moisturizing of wounds such as stage I-IV Pressure ulcers, Stasis ulcers, Diabetic foot ulcers, Post-surgical wounds, First and Second degree burns, Cuts, Abrasions and Minor skin irritation.

INGREDIENT	ACTION	DESCRIPTION
Ag NO3	Preservative & Anti-microbial agent	Ionic silver kills on contact and inhibits the growth of bacteria, yeast, and fungi
Menthol	Penetration enhancer, Growth promoter, Pain reliever, Odor fighter	Enhances ionic silver antimicrobial activities and fights wound odor, Promotes granulation tissue growth by vasodilatation
Tween 20	Surfactant and Detergent	Enhances solution penetration into the biofilm Acts as wound cleansing detergent
Glycerol	A hypertonic aqueous solution that prevents macerations and Soothing agent	Aids mechanical removal of exudates and microorganisms Creates Hydrogel function by absorbing water molecules
Tris Buffer	Buffered neutral pH	Biocompatible to physiological pH

Protected from microbial contamination, destroys bacteria, even those resistant to antibiotics.

Steroid-Free, Antibiotic-Free

Non toxic, Non cytotoxic, Non Staining

INGREDIENTS

Ingredients include water for injection (WFI), glycerol (glycerin), sorbitan monolaurate (Tween-20), TRIS, menthol and silver nitrate 0.01% (w/v).

SilverStream Solution® is available in 100mL, 250mL, 500mL bottles.

www.gwhpcorp.com

GLOBAL™ WHOLEHEALTH PARTNERS
Exclusive U.S. Importer & Distributor

Imported & Distributed by:
Global Wholehealth Partners Corp.
8025 Summer Place St.
Fontana, CA 92336
Phone +1 (833) 773-GWHP
www.gwhpcorp.com

SilverStream Medical Ltd.
VAT ID: 513160986 , Israel

MD

Not all products are registered and approved for sale in all countries and regions. Indications for use may also vary by country and region. Please contact your country representative for product availability.

Caution: US Federal law restricts this device to sale by or the order of a physician.