



SEAMLESS CARE, ANYWHERE Elevating excellence in Hospital and Homecare



# HEALING RATING JND ACCEL

STERILE

**Medical Device** 



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## SilverStream® Solution

## A Superior Wound Management Solution

SilverStream® is a patented wound management synergetic solution that chains the complete wound treatment cycle and accelerates the healing process of acute, burns, hard-to-treat wounds, and chronic non-healing wounds

- **BURNS**
- **DIABETIC ULCERS**
- **VENOUS ULCERS**
- PRESSURE ULCERS
- TRAUMA CASES
- POST-SURGICAL WOUND

- **ACUTE WOUNDS**
- PREVENTION OF ULCERS\*
- **CUTS & ABRASIONS**
- MINOR SKIN IRRITATION
- **RECONSTRUCTIVE &** COSMETIC PROCEDURES



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



SilverStream® is a patented wound management solution, combining a low concentration of silver ions (0.01%), menthol, and glycerol plus a surfactant, dissolved in a hypertonic solution.



SilverStream's unique formulation ensures the efficient eradication of biofilm, a well-prepared wound bed, and provides a highly potent environment for wound healing. May contribute to a potential reduction in Antibiotic usage.



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



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.

- 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
- Prevents and treats post-surgical SSI\*\*\*
- No Coloring, No Staining, No Argyria
- No Local Irritation or Allergic Reactions
- Proven Safety: Non toxic, Non cytotoxic
- Reduces Treatment Period

(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) Kumar, A., Bajaj, S. S., & Bajaj, J. K. (2022). "A Comparative Study of Efficacy of Silver Stream versus Povidone Iodine in Healing Diabetic Ulcers." International Surgery Journal, 9(6), Page Range. DOI: https://doi.org/10.18203/2349-2902.isj20221407

(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) Weitman Cernica, C. (2021). "Preventing Ulcers in Bullous Erysipelas: Clinical Study on the Efficacy of Topical SilverStream Treatment, Including Post-Hospitalization Supervision."

Dermatology Department, Hadassah Hebrew University Medical Center, Jerusalem, Israel \* Bullous Erysipelas and Post-Surgery & Post-Traumatic Reconstruction Site Infection

\*\* Matrix Metalloproteinases \*\*\* SSI- Surgical Site Infection

## SilverStream® in Action









#### **Wound Condition before SilverStream:**

Age: 80-year-old patient
Diabetes mellitus.
Left foot amputation plus infection.
Complications from diabetes,
blood flow on the wound bed hampered,
and tested positive on culture.

#### SilverStream Treatment:

10 ml SilverStream is used per treatment every day for 12 days. No debridement was performed except SilverStream. No antibiotic treatment.

No adverse event, irritation or discomfort. Complete elimination of infection observed in 5 days. Restoration of blood flow in the wound bed was seen.

Wound size reduced by >60% in 14 days. Complete wound closure after 6 weeks.

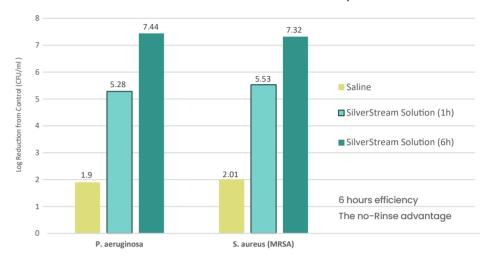
Bactericidal and

#### The Center for Biofilm Engineering

at Montana State University demonstrated SilverStream's strong Anti-Biofilm effect

Evaluation of an Ionic Silver Solution conducted at the Montana State University Center for Biofilm Engineering

Treatment of Biofilm with SilverStream compare to Saline



Bacterial log reduction in biofilm: after 1 hour & 6 hours of treatment of biofilm with SilverStream compare to Saline

Experiments conducted by Nelson Labs (USA) and others demonstrated broad-spectrum antimicrobial activity. The microorganisms listed in the tables represent typical pathogenic strains commonly found in wound cultures.

SilverStream Efficacy	Bacteriostatic activity	Tests Performed
Escherichia coli	<b>/</b>	MIC/MBC/Microbial limit <usp 61="">/ Zone of inhibition <usp 81="">/ Antimicrobial preservative <usp 51=""></usp></usp></usp>
Staphylococcus aureus (MRSA)	<b>✓</b>	MIC/MBC/Microbial limit <usp 61="">/ Zone of inhibition <usp 81="">/ Antimicrobial preservative <usp 51=""></usp></usp></usp>
Staphylococcus epidermidis	<b>✓</b>	MIC & MBC
Klebsiella pneumoniae	<b>✓</b>	MIC & MBC
Pseudomonas aeruginosa	<b>✓</b>	Microbial limit <usp 61="">/ Antimicrobial preservative <usp 51=""></usp></usp>

SilverStream Efficacy	Fungistatic activity	Tests Performed
Candida albicans	<b>✓</b>	Antimicrobial preservative <usp 51=""></usp>
Aspergillus niger	<b>✓</b>	Antimicrobial preservative <usp 51=""></usp>
Trichophyton rubrum	<b>✓</b>	An in-vitro study conducted by an internal laboratory aimed to screen for fungicidal activity against a pathogenic fungus causing skin infections <sup>6</sup>
Microsporum canis	1	An in-vitro study conducted by an internal laboratory aimed to screen for fungicidal activity against a pathogenic fungus causing skin infections <sup>6</sup>

## **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.

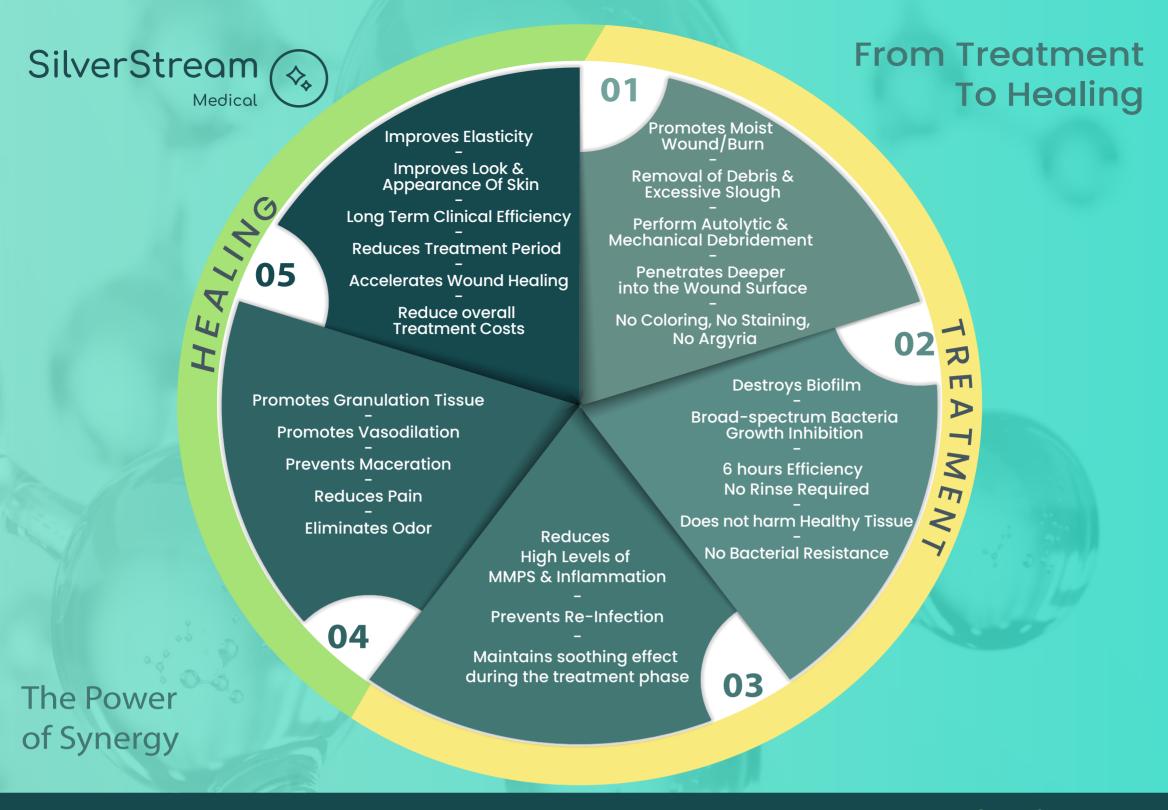
#### ldo Mizrahi, MD,

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.

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

#### 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® 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.

INGREDIENI	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

#### **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.

Non toxic, Non cytotoxic, Non Staining

Steroid-Free, Antibiotic-Free

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