

Prevention



# SilverStream

Solution



ACCELERATING  
WOUND HEALING

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# Reactivates Efficient Wound Healing

## SilverStream®

Advanced Wound Management Solution Contains Antimicrobial Silver Ions  
for the Treatment of Chronic and Difficult to Heal Wounds

Clear, colourless solution, protected from Microbial Contamination  
by a low concentration Ionic Silver

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

01

SilverStream® is a highly effective wound management solution that effectively 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 anti-bacterial activity as well as a biofilm destruction function - making SilverStream® a highly efficient antibacterial agent.

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
- No Bacterial Resistance
- Reduces High Levels of MMPS\*\* & Inflammation
- Increases Blood Circulation
- 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) Chausa Weitman Cernica. Preventing Ulcers in Bullous Erysipelas Topical Silver Stream Treatment. Hadassah Medical Center, Israel

\* Bullous Erysipelas

\*\* Matrix Metalloproteinases

# SilverStream® in Action

Before



## 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.

12 Days After



## 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 to less than half in 12 days.

## Bacterial Log reduction in Biofilm CFU/mL after 1h of treatment

Bacterial Strain	Saline	SilverStream
Pseudomonas aeruginosa	1.59	<b>4.84</b>
Staphylococcus aureus (MRSA)	1.66	<b>5.44</b>

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

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	✓

## 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

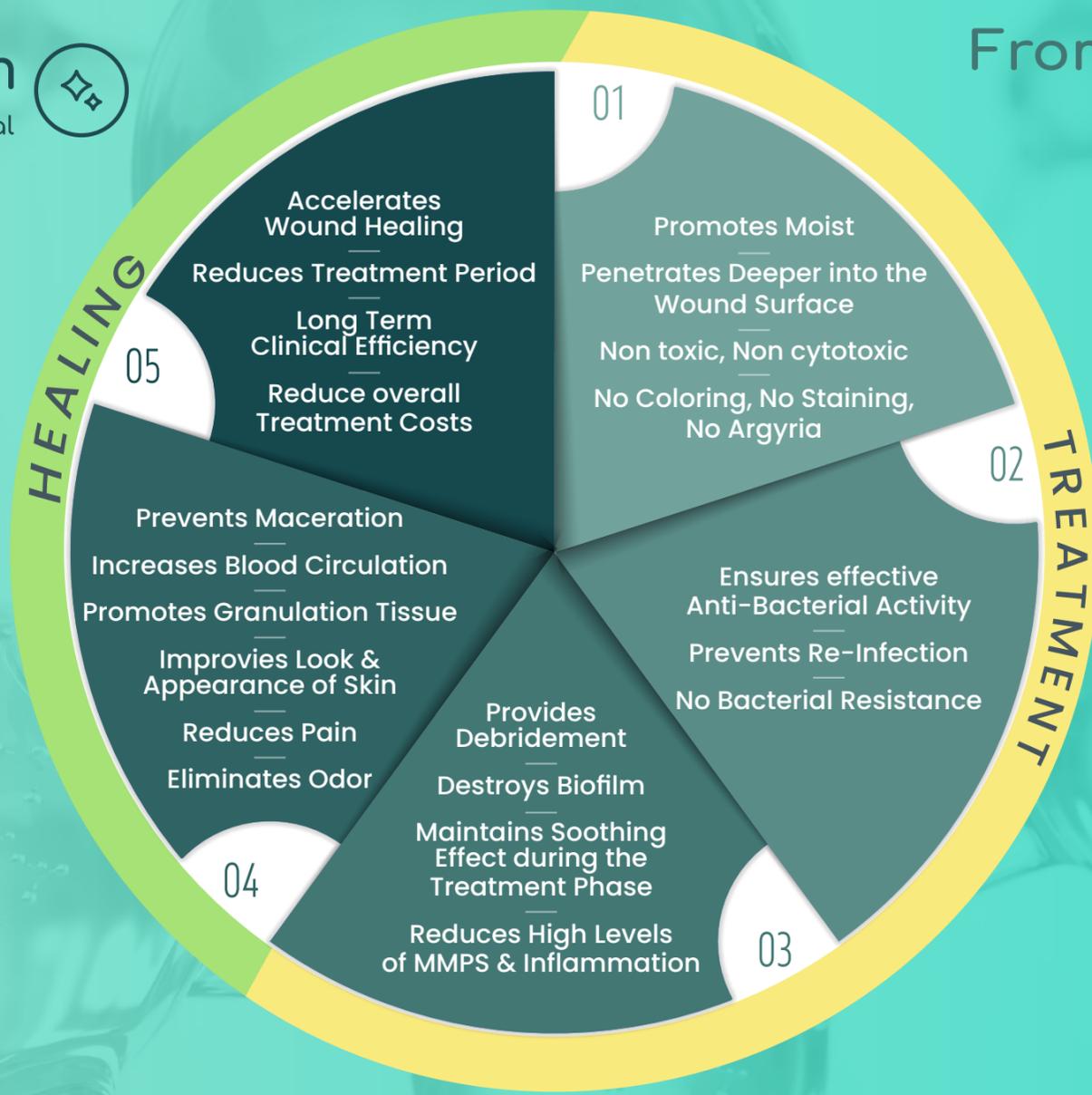
SilverStream enhances granulation tissue formation, reduces bacterial load, increases skin graft success rate and shortens hospital stay, for DFU patients

**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® has been authorized as a medical device by the US FDA, and additional 20 countries worldwide including India (CDSCO), ISR MOH (AMAR) 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 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 purified water, glycerol (glycerin), sorbitan monolaurate (Tween-20), TRIS, menthol and silver nitrate 0.01% (w/v).  
Contains Antimicrobial ionic Silver  
pH Neutral Solution

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

**POTENT ANTI-MICROBIAL PROPERTIES:**

Destroys Bacteria and Fungi, even those resistant to antibiotics

**Steroid-Free, Antibiotic-Free**

Non toxic, Non cytotoxic, Non Staining

