

SilverStream
Medical



SEAMLESS CARE, ANYWHERE
Elevating excellence in Hospital and Homecare



ACCELERATING
WOUND HEALING

STERILE

Medical Device



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SealStream® Solution

A Superior Wound Management Solution

SealStream® 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

01

SealStream®, 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.

02

SealStream® 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.

03

SealStream'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.

04

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

05

SealStream' 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
- 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

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) 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

SealStream® in Action



Wound Condition before SealStream:

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.

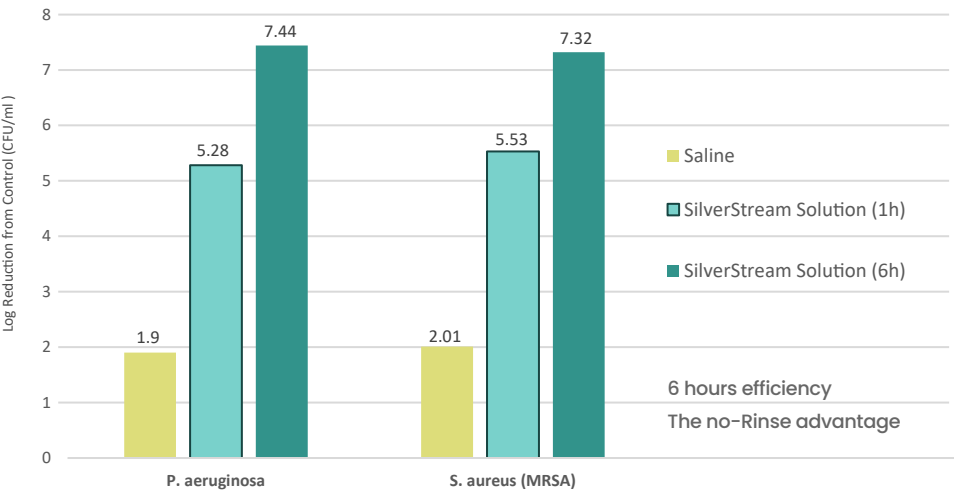
SealStream Treatment :

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

The Center for Biofilm Engineering at Montana State University demonstrated SealStream'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	Bactericidal and Bacteriostatic activity	Tests Performed
Escherichia coli	✓	MIC/MBC/Microbial limit <USP 61>/ Zone of inhibition <USP 81>/ Antimicrobial preservative <USP 51>
Staphylococcus aureus (MRSA)	✓	MIC/MBC/Microbial limit <USP 61>/ Zone of inhibition <USP 81>/ Antimicrobial preservative <USP 51>
Staphylococcus epidermidis	✓	MIC & MBC
Klebsiella pneumoniae	✓	MIC & MBC
Pseudomonas aeruginosa	✓	Microbial limit <USP 61>/ Antimicrobial preservative <USP 51>

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

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

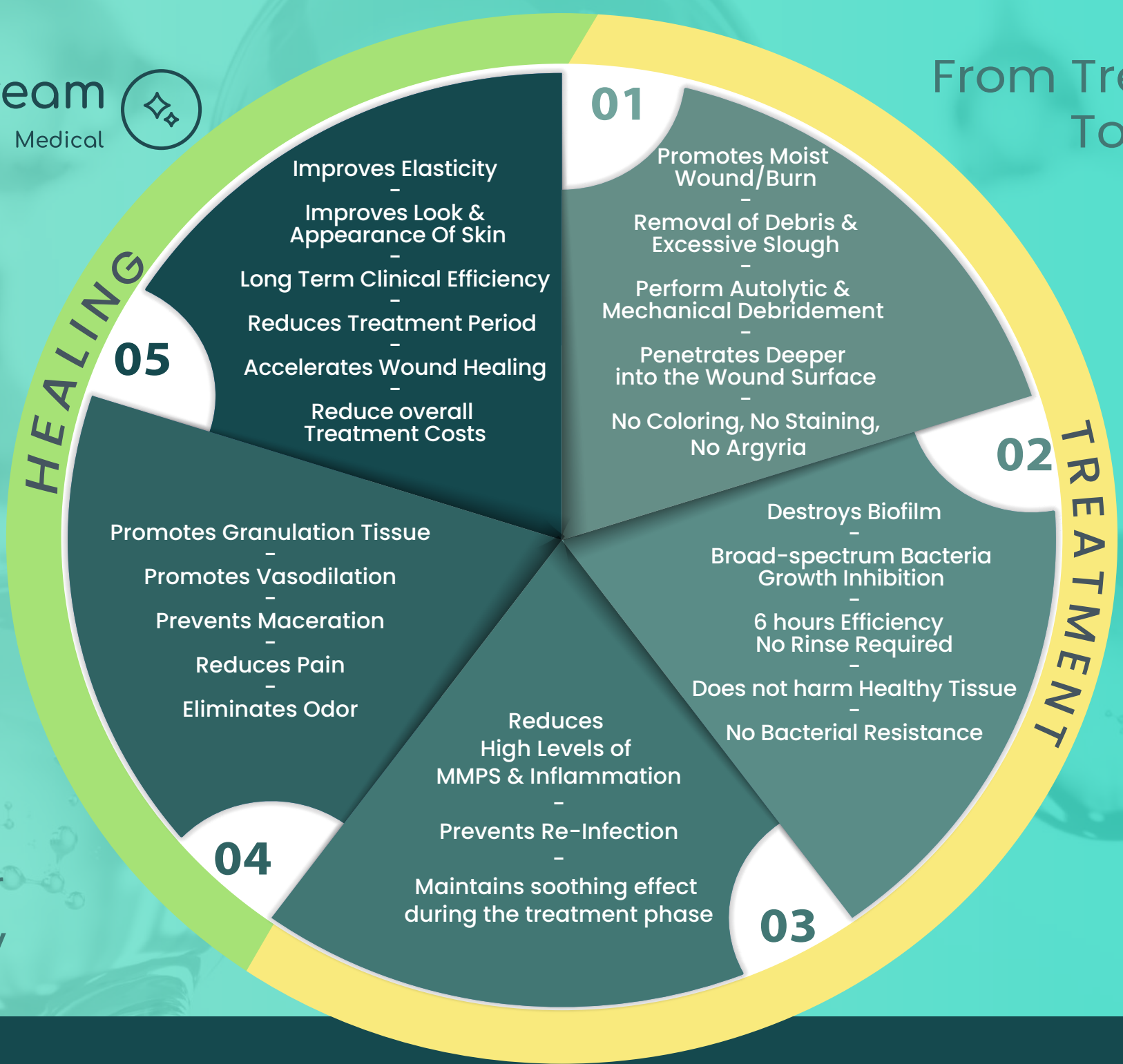
Ido Mizrahi, MD,
Noemie Nalbandian, RN MPH
Department of General Surgery
Hadassah Hebrew University
Medical Center, Mount Scopus,
Jerusalem, Israel

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

(6) Bioassay of fungicidal activity of Silverstream : This in-vitro study conducted by an internal laboratory focused on screening for fungicidal activity a pathogenic fungus causing skin infections



The Power
of Synergy

SealStream® has been authorized as a medical device by the US FDA (510K) and additional 23 countries worldwide including India (CDSCO), ISR MOH (AMAR) for mechanical cleansing and removal of foreign material including micro-organisms and debris from 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 irritations.

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 vasodilation
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).

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

- Non toxic, Non cytotoxic, Non Staining
- Steroid-Free, Antibiotic-Free

www.silverstreammed.com

