



Beneficial Aspects of SilverDerm7[®]

PRODUCT

- **Significant and sustained antimicrobial (bacterial and fungal) activity;**
- **No reported microbial resistance (e.g. MRSA and VRE bacteria);**
- **No reported allergic sensitivities, completely hypoallergic**
- **Analgesia, observed topical wound pain reduction**
- **Clinical enhancement of wound healing**

Fewer dressing changes required, up to 7 days

The following is a summary of the major beneficial aspects of SilverDerm7[®]

• **Bacterial Resistance**

SilverDerm7[®] has demonstrated antibacterial and antifungal properties on all species tested to date. Forty bacterial and fungal species, including the so-called bad actors such as Methacillin Resistant Staphylococcus aureus (MRSA), Vancomycin Resistance Enterococcus faecalis (VRE), Pseudomonas aeruginosa and Escherichia faecalis have been killed in varying degrees by silver ions, with no indication that these bacteria developed resistance to the silver ions. Silver has been used as an antimicrobial agent for hundreds of years without the bacterial species having developed resistance.

• **Enhanced Wound Healing**

By creating an antimicrobial environment within the wound as well as a highly conductive surface covering the wound, wound healing has clinically and scientifically been found to be greatly enhanced. Healing time for all wound types has been significantly reduced by as much as fifty percent.

• **Reduced Scarring**

By controlling the bacterial growth on the wound surface as well as providing a highly conductive surface covering, the edema (swelling) and soft tissue reaction to trauma is significantly reduced. By controlling the edema and soft tissue reaction the resultant scarring at the wound site is significantly reduced.

• **Extended Life of Dressing**

SilverDerm7[®] dressings are applied to patients with various wound types up to seven days, depending on exudate, dressing is periodically inspected, washed in a sink with "clean" water and reapplied with new tape and absorbent padding. For extended use, it is important to keep dressings as clean as possible.

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• Sterile Application Without Sterile Technique

The entire surface area of SilverDerm7[®] dressings is antimicrobial. Sterile application of the dressings can be achieved without the necessity of sterile technique. SilverDerm7[®] dressings are essentially self-sterilizing due the extremely large surface area of exposed silver. SilverDerm7[®] dressings that are dropped on the floor and cultured for bacteria an-hour later show no growth. The dressing is ideal for application by individuals untrained in sterile technique.

• Antimicrobial Barrier

SilverDerm7[®] wound dressings serve as a barrier to the access of bacteria and fungi to a wound surface. SilverDerm7[®] keeps environments that are significantly contaminated with pathogenic bacteria and fungi from infecting open wounds. SilverDerm7[®] dressings applied to open wounds do not become infected even when the wound is in contact with a contaminated water supply.

• Analgesic

SilverDerm7[®] dressings reestablish the transepithelial potential (electrical skin potentials) over wound areas. By reestablishing this potential through the highly conductive nature of SilverDerm7[®] dressings, significant reduction in nervous system input from the lesion is experienced with reduction in the sensation of pain coming from the lesion as well as the cascade of tissue reactions as a result of injury (e.g. edema). Thus SilverDerm7[®] dressings create a significant analgesic effect, reducing the need for pain medications resulting in earlier return to work and play.

• Hypoallergic

Traditional methods of eradicating microorganisms likely to cause wound infections involve the use of harsh chemicals. Such chemicals, while killing some microorganisms, can also cause allergic and toxicity reactions to the extent that the healing process is actually impeded. Chemical analysis of SilverDerm7[®] reveals 99% pure metallic silver and 1% silver oxide. Metallic silver and silver oxide does not exhibit allergic reactions, toxicity, or retardation of the healing process.

The SilverDerm7 [®] Advantage		
Characteristic	SilverDerm7 [®] Dressings	Standard Dressing
Antibacterial / Antifungal	Antibacterial & Antifungal to all species	Not Antimicrobial
Cost Effective	Fewer dressing changes required reduced material & labor costs	Traditional dressing change protocol
Nonresistant	No reports of any bacterial or fungal resistance.	Not Antimicrobial
Analgesic	Reduced bacterial contamination reduces inflammatory response and related pain.	No comparable mechanism
Hypoallergenic	Hypoallergenic, non- toxic and optimizes healing without the use of harsh chemicals.	No comparable characteristic

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Use of Pure Metallic Silver

Use of Pure Metallic Silver plated to Nylon Dressing for:

Recalcitrant Wounds

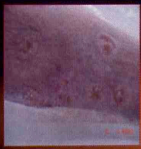



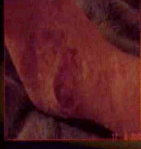



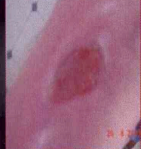


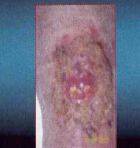
ONE PROTOCOL

1. Rinse with sterile water
2. Place moistened silver pad on wound
3. Cover with secondary dressing
4. Leave in place for 24 hours

1. Rinse wound with sterile water
2. Rinse silver pad
3. **Re-apply silver pad**
4. Cover with secondary dressing

Repeat process
Replace silver pad after 7 days

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Before	After	Case Description
		39 yo male with cirrhosis of liver with pyoderma gangrenosum for 12 wk duration. Tx in conjunction with IV antibiotic therapy Healed: 2 mos
		53 yo male with IDDM with osteomyelitis to plantar surface of foot for 18 mos duration, had been tx with IV antibiotics and growth factors prior to treatment. Healed: 4 mos
		79 yo female with dwarfism and long-standing dystocia of hips, severe Arthritis, recurrent cellulitis and pain Duration of wound 4 years Healed 4 mos.
		76 yo female with Metastatic Cancer with a staph infection to the leg Duration of wound: 5 mos Pain diminished in 2 weeks, status is Healing at 4 mos.
		88 yo with trauma wound to leg for 12 mos duration. Experienced severe pain that interrupted her sleep at nite. Pain diminished in 10 days, sleeps through nite. Healing in 4 mos.
		78 yo female with advanced vascular and connective tissue disease and SLE Skin friable. Used product in conjunction with mesh dressing. Healed within 3 mos.

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