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 Methicillin Resistant Staphlococcus aureus (MRSA), Vancomycin Resistance Enterococcus fecalis (VRE), Pseudomonas aeruginosa and Esherichia 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 scaring 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 to 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.

• **Hypoallergenic**
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.

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

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