**Quick Facts**

**Silver Dressings**

Addressing Concerns About High-Volume Silver Ion Release

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**Mechanism of action relies on silver ion release**

Silver is recognized as cytotoxic to keratinocytes and fibroblast.

There are growing concerns over bacterial resistance to silver.

Low concentrations of silver ions are not suitable for treatment of biofilm.

Silver can cause skin discoloration.

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**Bactericidal Activity vs Silver Toxicity**

<table>
<thead>
<tr>
<th>Silver Cytotoxicity</th>
<th>JumpStart Dressing</th>
<th>Silver Dressing A</th>
<th>Silver Dressing B</th>
<th>Silver Dressing C</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥60 ppm(^{1,4})</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Silver Ion Release (ppm)

<table>
<thead>
<tr>
<th>JumpStart Dressing</th>
<th>Silver Dressing A</th>
<th>Silver Dressing B</th>
<th>Silver Dressing C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.22 ppm</td>
<td>104 ppm(^3)</td>
<td>127 ppm(^3)</td>
<td>282 ppm(^3)</td>
</tr>
</tbody>
</table>

ppm = parts per million

Silver Ion Release compared to JumpStart dressing

- 473x higher
- 577x higher
- 1282x higher

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**References**

1. Parsons C, Bowler P, Jones S. Silver antimicrobial dressings in wound management: a comparison of antibacterial, physical, and chemical characteristics.

2. Lansdown AB. A pharmacological and toxicological profile of silver as an antimicrobial agent in medical devices.


5. Lansdown AB, Schoenbrunner A. Bacterial resistance to silver in wound care and medical devices.


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*Preclinical*

**JumpStart Antimicrobial Wound Dressing Powered by V.Dox™ Technology**

- **MINIMAL SILVER.** JumpStart products deliver an unparalleled impact without high-volume silver release.

- **NO ADDED CHEMICALS.** JumpStart dressing achieves its antimicrobial impact without the need for added surfactants or chelating agents.

- **ONLY JUMPSTART DRESSING** uses the power of electricity to mimic skin’s physiologic electrical energy, providing a combination of benefits that no silver dressing can claim.