Vasodilation

Factors such as adequate perfusion and vasodilation are required to promote the healing process.

MIST® Therapy improved perfusion to the wound bed for wound healing¹

MIST Therapy improved perfusion to the wound bed for wound healing¹

Mayo Clinic¹*
- Laser Doppler was used to evaluate blood flow in a wound care patient
- Blood flow was assessed at baseline (prior to the 5-minute MIST Therapy treatment) and then 10 minutes after the treatment was concluded
- Vasodilation perfusion continued to improve post-MIST treatment

Perfusion is critical in treating deep tissue pressure injuries (DTPIs)²,³

A retrospective study of 127 DTPIs found 80% did not progress beyond a Stage II ulcer with UltraMIST® and standard of care (SOC) vs 22% of those treated with SOC alone.³

UltraMIST Therapy improves vasodilation to promote healing.
Angiogenesis is an essential component of wound healing, as new capillary development and growth are needed to repair damaged tissue.

**MIST® Therapy accelerated new blood vessel formation**

<table>
<thead>
<tr>
<th>New Blood Vessel Formation</th>
<th>MIST Therapy Promoted Vascular Endothelial Growth Factor (VEGF) Expression in Non-Healing DFUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sham Control</td>
<td>• Blood vessel count</td>
</tr>
<tr>
<td>Dark Pink = Blood Vessels</td>
<td>- Control: 25.7 ± 20.3, MIST: 41.2 ± 23.0 (P&lt;0.05)</td>
</tr>
<tr>
<td></td>
<td>• Diabetic mouse model</td>
</tr>
<tr>
<td></td>
<td>• 5 UltraMIST® treatments</td>
</tr>
<tr>
<td></td>
<td>• Granulation tissue cross sections were stained to look at new blood vessel development</td>
</tr>
<tr>
<td></td>
<td>• Blood vessel count</td>
</tr>
</tbody>
</table>

**University of Western Ontario**

- 12 patients with an average ulcer duration of 29 weeks
- Three study groups: 1 standard of care (SOC) and 2 UltraMIST groups
- 12 UltraMIST treatments
- VEGF spiked after 6 MIST treatments to stimulate angiogenesis and then declined as the wound moved on to healing
- SOC-treated group: 39% wound area reduction
- UltraMIST-treated group: 86% wound area reduction

**Boston University**

- Data were compiled utilizing MIST Therapy. UltraMIST is the successor but maintains the same mechanism of action.

**UltraMIST Therapy improves vasodilation to promote healing.**

References: