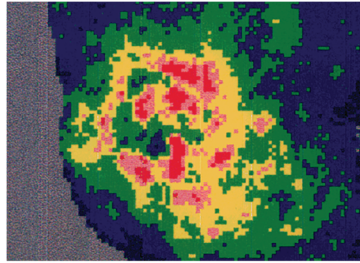


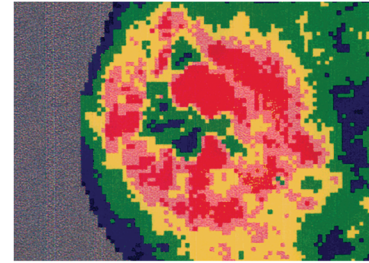
Vasodilation

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

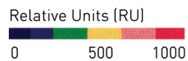
MIST[®] Therapy improved perfusion to the wound bed for wound healing¹



Pre-MIST



Post-MIST
(10 minutes after
treatment was completed)



Mayo Clinic^{1*}

- 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}

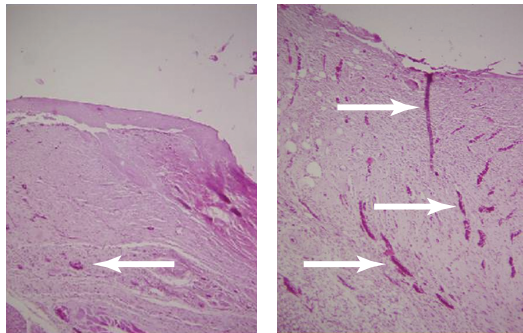
A retrospective study of 127 DTPIs found 80% did not progress beyond a Stage II ulcer with UltraMIST[®] and standard of care (SOC) vs 22% of those treated with SOC alone.³

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

New Blood Vessel Formation

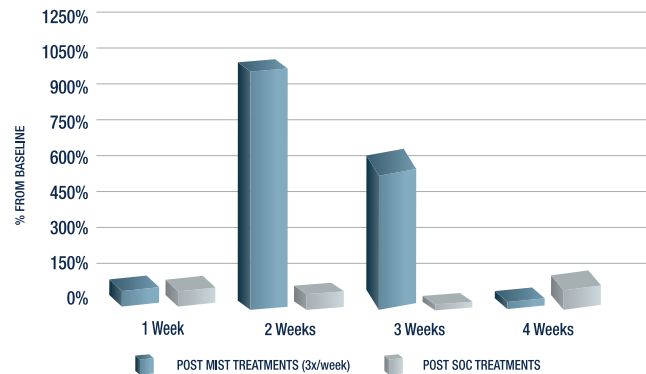


Sham Control

MIST Technology

Dark Pink = Blood Vessels

MIST Therapy Promoted Vascular Endothelial Growth Factor (VEGF) Expression in Non-Healing DFUs



University of Western Ontario⁴

- Diabetic mouse model
- 5 UltraMIST® treatments
- Granulation tissue cross sections were stained to look at new blood vessel development
- Blood vessel count
 - Control: 25.7 ± 20.3, MIST: 41.2 ± 23.0
 - (*P*<0.05)

Boston University^{5*}

- 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

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

UltraMIST Therapy improves vasodilation to promote healing.

SANUWAVE®
 Healing today. Curing tomorrow.

UltraMIST®
 Ultrasound Healing Therapy

For more information, please refer to the UltraMIST Therapy Instructions for Use.

References: 1. Liedl DA, Kavros SJ. The effect of mist ultra-sound transport technology on cutaneous microcirculatory blood flow. Abstract. SAWC, 2001. 2. Honaker J, Forston M. Adjunctive use of noncontact low-frequency ultrasound for treatment of suspected deep tissue injury: a case series. *J Wound Ostomy Continence Nurs.* 2011;38(4):394-403. 3. Honaker JS, Forston MR, Davis EA, Wiesner MM, Morgan JA. Effects of noncontact low-frequency ultrasound on healing of suspected deep tissue injury: A retrospective analysis. *Int Wound J.* 2013;10(1):65-72. 4. Thawer HA, Houghton PE. Effects of ultrasound delivered through a mist of saline to wounds in mice with diabetes mellitus. *J Wound Care.* 2004;13(5):1-6. 5. Yao M, Hasturk H, Kantarci A, et al. A pilot study evaluating noncontact low frequency ultrasound and underlying molecular mechanism on diabetic foot ulcers. *Int Wound J.* 2014;11(6):586-593.