



Accelerated Healing. Clinically Confirmed.

# Expedited Wound Healing with MIST Therapy®

*Study Summary*



# Expedited Wound Healing with Noncontact, Low-Frequency Ultrasound Therapy in Chronic Wounds: A Retrospective Analysis

Kavros SJ, Liedl DA, Boon AJ, Miller JL, Hobbs JA, Andrews KL. *Advances in Skin & Wound Care*. Vol. 21 no. 9. September 2008

## Study Overview:

This was a retrospective observational study that assessed the clinical role of MIST Therapy® in the treatment of chronic lower-extremity wounds including venous leg ulcers, ischemic lower extremity ulcers, neuropathic lower extremity ulcers and multi-factorial ulcers. It included 210 patients: 163 whose treatment included MIST Therapy plus standard of care and 47 who received only standard of care.

## Key Findings:

**Wound reduction** was achieved in **72%** of patients using MIST Therapy versus 46% of wounds treated with standard of care (SOC) alone. (P = .002)

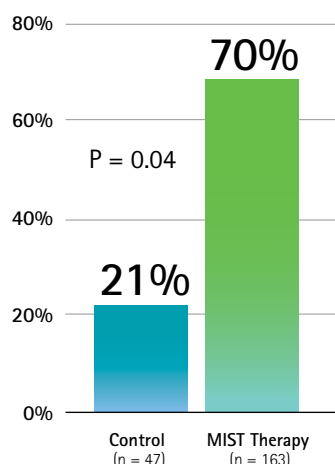
**Wound closure** was achieved in **70%** of all wounds treated with MIST Therapy as compared to 21% of wounds treated with SOC alone. (P = .04)

**53%** of wounds treated with thrice-weekly MIST Therapy **healed over a mean 147 days**. Just 32% of wounds treated with SOC alone healed over a mean 134 days. (P = .009)

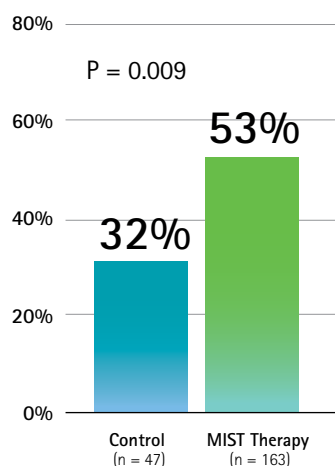
## Accelerating the Rate of Healing

MIST Therapy uses low-frequency ultrasound to stimulate cells at and below the wound surface to activate healing. A painless procedure, it is the only noncontact, low-frequency ultrasound device for healing cleared by the FDA.

Percent of Wound Closure



Proportion of Wounds Healed



### Physician Observations

"As an adjuvant therapy to hasten wound closure, MIST Therapy prepares the wound bed for healing by reducing bioburden, enhancing angiogenesis, assisting in debridement of necrotic and devitalized tissues, and stimulating cellular activity. In many cases, such preparation will be sufficient to stimulate formation of adequate granulation tissue, ultimately leading to complete epithelialization and wound closure."\*

— Dr. Steven J. Kavros , Mayo Clinic

## Sound Science. Strong Results.

Before



After MIST Therapy



### Patients Like Yours?

The Kavros study focused on patients like Carla, a 71-year-old female with diabetes mellitus, hypertension and dyslipidemia. She also suffers from Peripheral Arterial Disease.

Carla suffers from below-the-knee wounds related to her diabetes.

The study found that wounds like Carla's healed faster when treated with MIST Therapy plus standard of care.

\*The mechanism of action of MIST Therapy has not been definitively established in clinical trials.

# Painless, Accelerated Healing with MIST Therapy<sup>®</sup>

MIST Therapy is an innovative, noncontact approach to wound healing. The system creates low-frequency ultrasound waves that produce and propel a gentle mist of sterile saline into the wound bed. The saline mist improves the transfer of ultrasound from the device without contact or pain to the patient.

MIST Therapy promotes painless wound healing through:

- Active cell stimulation
- Decreased bioburden
- Increased blood flow
- Cleansing and gentle/maintenance debridement

Preparation of this article was funded with educational support from Celleration, Inc.

Results may vary based on individual patient characteristics.

For more information, contact your local Celleration representative or call (952) 224-8700.



10250 Valley View Road, Suite 137  
Eden Prairie, MN 55344  
phone: 952.224.8700  
fax: 952.224.8750  
customer service: 866.307.MIST (6478)  
email: [info@celleration.com](mailto:info@celleration.com)

[www.celleration.com](http://www.celleration.com)

MIST Therapy System FDA Clearance. 510 (k) Clearance June 2005. "The MIST Therapy System produces a low-frequency ultrasound-generated mist used to promote wound healing through wound cleansing and maintenance debridement by the removal of yellow slough, fibrin, tissue, exudates and bacteria."

Please see full package insert for additional information on indications, contraindications, warnings, precautions, and side effects.