

CASE STUDIES: ULTRAMIST®

# Trauma With Deep Tissue Injury and Chronic Venous Insufficiency

*“UltraMIST increased local perfusion/vasodilation, decreased the bioburden and local inflammation, and accelerated tissue regeneration to the area.”*

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## Patient Background:

Female | Age: 87

Type 2 diabetes mellitus (DM), hypertension (HTN), venous insufficiency with great saphenous vein reflux, mild peripheral artery disease (PAD) – no plaque formation LE, carotid atherosclerosis, hyperlipidemia, cerebrovascular disease, congestive heart failure (CHF), nonsmoker

## PRESENTATION

**Background:** Deep tissue injury caused by trauma

**Location:** Anterior shin

**Supportive treatment:** Local care with silver hydrogel and collagen, super-absorbent polymer dressing every other day and between treatments, low-grade 10 mmHG pressure compression stocking during the day



Treatment 1



Treatment 2, two days later



Treatment 6–34 days

## TREATMENT STRATEGY

- UltraMIST treatment: Twice a week for 12 treatments

## AFTER TREATMENT OUTCOMES

- Use of UltraMIST increased local perfusion/vasodilation
- Decreased bioburden and local wound inflammation
- Accelerated tissue regeneration to the area
- Patient disposition: Improved patient's outlook and improved effect as progress was being recognized throughout treatment
- Area closed with minimal scarring and went to full closure within 77 days of initiating treatment
- No major safety concerns were observed



Treatment 9–56 days



Trauma venous insufficiency with DTI; Day 77; total of 12 UltraMIST treatments

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### DESCRIPTION AND INDICATIONS FOR USE

Description: The UltraMIST® System delivers low-frequency ultrasound to the treatment site using a noncontact fluid (e.g., saline). Indications for Use: MIST Systems produce a low energy ultrasound-generated mist used to promote wound healing through wound cleansing and maintenance debridement by the removal of fibrin, yellow slough, tissue exudates, and bacteria.

### CONTRAINDICATIONS, POTENTIAL COMPLICATIONS, AND WARNINGS

Contraindications: Do not use near electronic implants/prosthesis (e.g., near or over the heart or over the thoracic area if the patient is using a cardiac pacemaker); on the lower back during pregnancy or over the pregnant uterus; over areas of malignancies.

**Potential Complications:** Tingling, redness.

**Warnings:** UltraMIST applicator is designed as a single patient-use disposable unit to avoid contamination. Do not re-sterilize or reuse applicators. Reusing the applicator and/or fluid may result in infection and degraded performance. Do not allow the treatment wand or applicator to contact the patient's skin directly. Risk of burns: Do not touch the metal tip of the treatment wand during operation.

Please refer to the Instructions for Use for additional information.

For more information, visit [SANUWAVE.com](http://SANUWAVE.com), or email [order@sanuwave.com](mailto:order@sanuwave.com).