

CASE STUDIES: ULTRAMIST®

Postsurgical Osteotomy First and Fifth Metatarsal

"The use of UltraMIST as a wound bed preparation not only improves outcomes toward wound closure, but provides much-needed positive reassurance for the chronic wound patient."

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Patient Background:

Female | Age: 48

No significant medical history

PRESENTATION

Background: Frostbite: 4 weeks post-op presents with tissue necrosis

Location: Right foot

Cause: Post-surgical ice left on continuously for 38 hours

Supportive treatment: Protective dressing, dimethicone small molecule protective skin barrier, silver hydrogel with Therabond over areas once granulation occurred

Testing: Arterial testing showed no significant atherosclerosis or hemodynamically significant stenosis

TREATMENT STRATEGY

- UltraMIST treatment: Twice a week for eight treatments



Sutures intact; subepidermal blistering; frostbite post-op ice



Sutures intact; subepidermal blistering; frostbite post-op ice



4 treatments: Incisions intact; no subepidermal fluid; stable



8 treatments: Incisions intact; no subepidermal fluid; stable

AFTER TREATMENT OUTCOMES

- Use of UltraMIST increased local perfusion/vasodilation
- Decreased bioburden and local wound inflammation
- Accelerated tissue regeneration to the area
- Digits were preserved with viable tissue healing
- Decreased pain
- Areas preserved and went on to full closure within 10 weeks of initiating treatment
- No major safety concerns were observed



At 9 weeks: Lateral incision closed, medial incision with granular base



Full closure great toe ulcer, 1st and 5th toes viable

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](https://www.sanuwave.com), or email order@sanuwave.com.

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