Succcessufly Clear Bacterial Infection with the

DERMA-WAND™

Ultraviolet C (UV-C)

The bactericidal ultraviolet "C" (UV-C) treatment program is an adjunctive therapy for reducing and eliminating bacterial bio-burden that can impede wound healing. This method of treatment is consistent with wound care best practice guidelines. It is an important and cost-effective modality for cleaning a wound of surface infection.

Unlike topical antiseptics that can inhibit wound healing, the effects of UV-C radiation are all positive.

You don`t need to choose a compromise between wound healing response and infection control. The Derma-Wand provides a mild positive stimulation effect while its germicidal properties work to knock out the infection.

UV-C Therapy Really Works!

- **DERMA-WAND IS EFFECTIVE** for clearing infections from the wound bed, including antibiotic resistant strains such as MRSA, VRE and HDM-1.
- **DERMA-WAND WILL stimulate** the surrounding area to help induce a healing response.
- **THREE TREATMENTS PER WEEK**
  - Effectively eliminate pathogens
  - Stimulate cellular proliferation
  - Provide a mild debridement to reduce eschar

Use the Derma-Wand for:

Infected Wounds with Poor Circulation

UV-C radiation at therapeutic levels is an important adjuct to antibiotic medications. Systemic antibiotics often do not reach the infected wound tissues because of poor circulation at the wound site. The antibacterial characteristic of UV-C radiation makes it effective in treating chronic wounds. UV-C therapy can be given concurrently with systemic antibiotics.

Antibiotic Resistant Strains

Even where sensitivity testing has shown resistance of the colonizing species to specific antibiotics, UV-C radiation can efficiently kill these strains of bacteria. In particular, UV-C is effective in eliminating methicillin-resistant Staphylococcus aureus (MRSA) vancomycin resistant Enterococcus (VRE) and lactamase-producing pseudomonas aeuginosa (HDM-1). MRSA is becoming increasingly prevalent, and interferes with wound healing.

First Line Therapy

For combating developing infections and associated skin problems.

Replacement for Topical Antimicrobials

Topical antiseptic agents have been shown to be toxic to granulating tissue and are not recommended by most wound care commmittees. UV-C radiation therapy clears infections. It also provides a mild stimulating effect from the inflammatory response to help accelerate wound healing.

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More Features of UV-C Therapy

At higher exposure levels, UV-C provides a soft debridement to help disintegrate eschar that can inhibit wound closure.

With guide rails to maintain the correct wound distance and a built-in digital timer, the Derma-Wand™ is the ideal unit for applying UV-C radiation. The Derma-Wand UV-C lamp is part of the popular Handisol™ family of hand-held ultraviolet dermatology products. UV-C radiation is not associated with skin cancer.

Full Information

A three-hour familiarization training guide, and a physician's prescribing information sheet is shipped with each Derma-Wand so that you can quickly implement the UV-C Derma-Wand therapy at your facility.

Operator Qualifications

The Derma-Wand is essentially very easy and straight-forward to use. Direct the lamp onto the infected area, and it completely eradicates all bacteria in sight, while mildly stimulating the granulation tissue.

In a nursing home, hospital or home care setting, the Derma-Wand is normally used by a registered nurse (RN) or physiotherapist on orders from a wound specialist, physician or physiotherapist.

You will want to understand the treatment more thoroughly to administer the optimal dose while using the lamp safely.

We recommend the following operator training:

- Training in wound care
- Completion of the supplied self-training program

For UV-C therapy, why choose Derma-Wand?

- √ Higher radiation intensity. Typical exposure is 30 to 90 seconds per treatment, depending on wound complexity
- √ Convenient guide rails to maintain 1" height above the wound
- √ Locking ON/OFF with keys to prevent tampering
- √ Digital timer
- √ Portable and compact
- √ Detailed instruction manual
- √ Training guide
- √ Physician prescribing information sheet

The biological effect of UV-C and the treatment parameters are well understood. It can be used where conventional methods have been ineffective. Recently published clinical studies have documented the bactericidal and wound healing effectiveness of UV-C radiation therapy.

Specifications — Derma-Wand Handisol Model UVC-112 UV-C Lamp

Radiation Output	Single wavelength 254 nm Ultraviolet "C" (UV-C), non-ionizing
Output Intensity	4.15 mW/cm^2 nominal
Therapeutic Dose	300 millijoules/cm^2 (typical)
Exposure Time	30 to 90 s (typical)
Treatment Frequency	3 times per week or at dressing changes until bacteria-free
Course of Treatment	2 to 3 weeks (typical)
Height Above Wound	2.54 cm (1 inch) working distance
Visible Light Output	Faint blue light (non-therapeutic) to show treatment footprint of UV-C radiation
UVC Blocking Goggles	Supplied. Required by operator and patient
Configuration	Two shatter-resistant UV-C mercury vapour tubes
Tamper Control	Mechanical lock, with 2 keys
Electrical Safety	CSA certified for medical use. Includes hospital-grade power cord.
Medical Safety and Efficacy	Listed by Health Canada as a Class 2 medical device. Licence 4656. FDA approved.
Wand Cable Length	2 m
Rated Lamp Life	75 hours typical
Power	120 VAC 60 Hz, 0.5 A
Weight	Controller: 3.5 kg - Wand: 0.8 kg
Warranty	5 years, excluding lamps
Replacement Lamp Tubes	Part Number SER-007

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