

Thera-Wand

Model C-100

Ultraviolet C Treatment Lamp

WOUND HEALING

SUCCESSFULLY CLEAR BACTERIAL INFECTION WITH THE GERMICIDAL™ THERA-WAND

UV-C THERAPY REALLY WORKS

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 clearing a wound of surface infection.

Unlike topical antiseptics that can inhibit wound healing, the effects of the germicidal UV lamp are all positive.

You don't need to choose a compromise between wound healing response and infection control. The Thera-Wand provides a mild positive stimulation effect while its germicidal properties work to knock out the infection.



THERA-WAND™ IS EFFECTIVE for clearing infections from the wound bed, including antibiotic resistant strains such as MRSA, VRE and HDM-1

THERA-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™ THERA-WAND FOR:

Infected Wounds with Poor Circulation

UV-C radiation at therapeutic levels is an important adjunct 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, the germicidal UV lamp 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 aeruginosa (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 committees. UV-C radiation therapy clears infections. Its actinic photochemical effect provides a mild inflammatory response and stimulation reaction to help increase local blood flow and accelerate wound healing.



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.

The Thera-Wand™ is the ideal unit for applying UV-C radiation. It is supplied as a single wand unit, type V-254, with an ON-OFF switch and 2 m (6.5 ft) power cord. 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 Thera-Wand™ so that you can quickly implement the UV-C Thera-Wand therapy at your facility.

OPERATOR QUALIFICATIONS

The hand-held Thera-Wand is essentially very easy and straight-forward to use. Direct the lamp onto the infected area, and it completely eradicates all bacteria on the irritated wound, while mildly stimulating the granulation tissue.

In a nursing home, hospital or home care setting, the Thera-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

WHY CHOOSE THERA-WAND FOR UV THERAPY?



- ✓ Higher radiation intensity.
- ✓ Typical exposure is 30 to 90 seconds per treatment, depending on wound complexity.
- ✓ Portable and compact
- ✓ Detailed instruction manual
- ✓ Training guide
- ✓ Physician prescribing information sheet

The biological effect of germicidal ultraviolet irradiation and the treatment parameters for wound healing are well understood. The Thera-Wand 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 | MODEL C-100 THERA-WAND ULTRAVIOLET-C TREATMENT LAMP |
|----------------------------------|---|
| Radiation Output | Single wavelength 254 nm Ultraviolet "C" (UV-C), non-ionizing |
| Output Intensity..... | 4 mW/cm ² nominal |
| Therapeutic Dose..... | 120 to 360 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 (typical) |
| UVC Blocking Goggles..... | Supplied. Required by operator and patient |
| Configuration..... | One enclosed UV-C low-pressure mercury vapour tube |
| Electrical Safety..... | Certified to CSA requirements for medical use |
| Power..... | 120 V 60 Hz, 0.16 A, or 230 V 50 Hz, 0.12 A For 230 V model, specify plug type. |
| Weight..... | 730 g (1.6 lb.) |
| Warranty..... | One year, excluding tube which has a typical service life of 75 hours |
| Replacement Lamp Tube..... | Part Number BG100 |
| Medical Safety and Efficacy..... | Listed by Health Canada as a Class 2 medical device. Licence 88512. |

™ Thera-Wand is a trademark of BIOMATION



335 Perth Street
P.O. Box 156
Almonte, ON K0A 1A0
Canada

Tel: 613-256-2821
Toll free: 1-888-667-2324
Fax: 613-256-5872
E-Mail: info@biomation.com
Web: www.biomation.com/wound