WMCS Wireless Micro Current Stimulation Advanced Wound Healing Technology

Wetling™
ELECTROCEUTICALS

(Wetling WMCS Brochure - Version 2026-2)

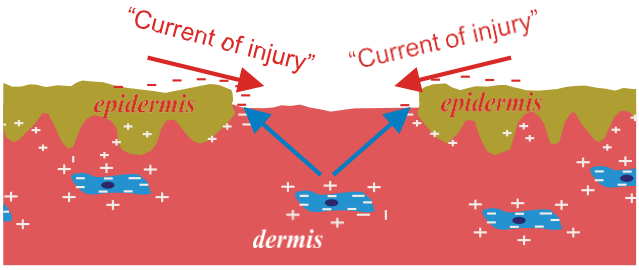
The Human Body's Natural Bio-electric System

The human body has its natural bio-electrical system controlling virtually all bodily functions.

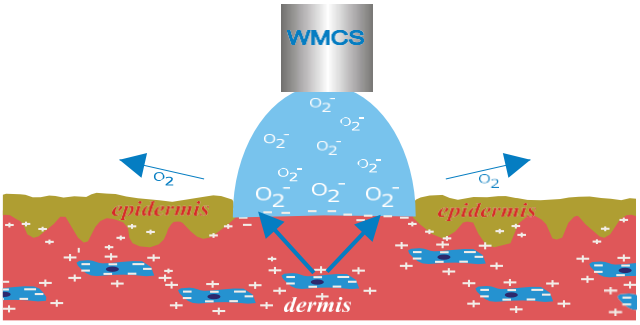
It has long been known that a weak but measurable electric current (known as 'the Current of Injury') is generated in wounded tissue, between the epidermis and the inner tissue.

This current promotes wound healing by attracting the cells of repair, changing cell membrane permeability, enhancing cellular secretion through cell membranes, and orienting cell structures (a process known as Galvanotaxis or Electrotaxis).

If this natural process is weak or absent, healing will be delayed. This may result in a chronic wound.



The body's natural wound-healing process takes place at the edge of the wound.



When applying WMCS to the wound, the process of healing takes place on the entire surface of the wound at once. This accelerates the process of healing.

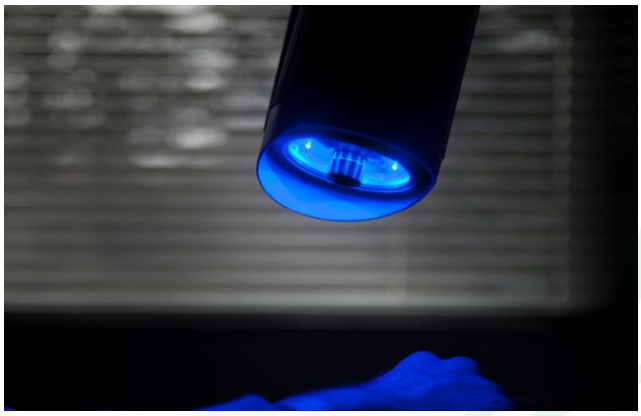
Electrical Stimulation – The Scientific Background of WMCS

Electrical Stimulation (ES) has long been known for its ability to accelerate wound healing as it mimics the body's natural bio-electrical "Current of Injury".

In spite of being scientifically verified (with Class 1A evidence), the use of ES has up till now been limited due to problems in previous treatment modalities. The use of electrodes in or in close proximity to the wound caused, among other things, discomfort for the patient, high risk of infections and limited the treatment area.

"A reason for applying ES, Electrical Stimulation, is that it mimics the natural current and will accelerate the healing process."

– Sussman Physical Therapy



Introducing Wetling WMCS – Wireless Micro Current Stimulation

WMCS provides all the benefits of Electrical Stimulation without any of its traditional limitations.

WMCS is a groundbreaking new wound healing technology for professional care of both chronic and acute wounds.

WMCS re-establishes, stimulates and accelerates the body's own natural healing process.

" The achieved results by using the WMCS method are very positive. In about 75% of all cases, we could see a significant improvement in the wound healing process, compared to treatment known so far... We highly recommend this method to all interested Wound Specialists."

– Dr.med. Thomas Zehnder, Head of Angiology and Wound Ambulance, Deputy Chief Physician, Department of Internal Medicine, Hospital Thun, Switzerland

WMCS – How does it work?

In short, WMCS is Electric Stimulation applied wirelessly to the wound.

The basis of an electric current is the movement of electrons. WMCS uses the ability of nitrogen and oxygen molecules to donate and absorb electrons respectively, a process similar to what we observe in nature when lightning occurs during thunderstorms.

The innovative WMCS technology enables oxygen molecules from the air to be charged with electrons, which then are 'sprayed' onto the wound bed. When the charged molecules (negative oxygen ions) touch the wound or skin surface, they will discharge the extra electrons, while the basic oxygen molecule merely carries on in the air.

WMCS - Benefits

The WMCS technology produces results that in most cases exceeds the expectations in conventional wound healing:

- Shorter Healing Times
- Pain Relief
- Reduced Risk of Infections
- Cost Savings

The WMCS technology will shorten healing time, resulting in patient comfort and reduced nursing costs

WMCS – Application Areas

WMCS is suitable as adjunct treatment for most types of wounds, both chronic and acute:

- Pressure ulcers
- Arterial ulcers
- Venous stasis ulcers
- Neuropathic diabetic ulcers
- Burns; first and second degree
- Surgical wounds
- Traumatic wounds
- Soft tissue injuries
- Pruritic skin conditions, particularly atopic dermatitis

"In Ostalb-Klinikum Aalen, Academic University Hospital of Ulm, Germany, we are using the WMCS therapy in leg ulcers of any origin and in diabetic foot ulcers with very encouraging results."

– Dr. med. Peter Wirsing

WETLING W200

The Wetling W200 is a medical device providing Wireless Micro Current Stimulation (WMCS) for wound and tissue healing.

Technical Specifications

Supply Voltage:	100–240 VAC, 50–60 Hz
Power Consumption:	Max 15 W
Temperature Requirement:	15–30 °C
Humidity requirement:	30–60%
Microcurrent:	0.5–4 μA
Light Source:	465 nm (blue), 530 nm (green) 630 nm (red)
Light Intensity:	0–100% in 10% increments
Treatment Distance:	<12 cm
Treatment Timer:	1–150 min
Weight, nett:	3.2 kg
Shipping Weight:	4.5 kg (cardboard casing) / 6.5 kg (hard case)
Shipping Box Size:	77 X 36 X 19 cm
Classification:	IIa (Annex IX rule 9)
Estimated Lifetime:	No less than 5000 treatment hours or 5 years whichever comes first

Intended Purpose

The Wetling W200 device is intended to be used in professional health care environment to deliver Wireless Micro Current Stimulation (WMCS) to patients. Without direct contact to the injured tissue, WMCS will promote and accelerate wound and tissue healing by attracting the cells of repair, changing cell membrane permeability, enhancing cellular secretion through cell membranes and orienting cell structures through the bioelectrical process of electrotaxis.

Indications For Use

The Wetling W200 device is suitable for adjunct WMCS treatment of most types of wounds and injuries, both chronic and acute:

- Pressure ulcers
- Arterial ulcers
- Venous stasis ulcers
- Neuropathic diabetic ulcers
- Burns; 1st and 2nd degree
- Surgical wounds
- Traumatic wounds
- Soft tissue injuries
- Pruritic skin conditions, particularly atopic dermatitis

Intended Patient Population

The intended patient population is any person who requires wireless micro current stimulation (WMCS) to support wound healing and who does not have any listed contraindications.

Contraindications

Do not use the Wetling W200 if:

- The patient is pregnant or nursing.
- The patient has a pacemaker or other implanted electrical device(s).
- The patient has a malignancy close to the wound.
- The patient suffers from epilepsy or other neuroexcitatory conditions.

Intended Users

Wetling W200 is used by healthcare professionals.

Side Effects

Light itching, tingling and/or redness may occur during and/or after the treatment.

Precautions

- Only operate the W200 according to the guidelines in the User Guide (Instructions for Use).
- Do not operate the W200 near shortwave or microwave therapy equipment.
- Do not simultaneously connect the W200 and any high-frequency equipment to the patient.
- Do not take the W200 apart, as this can cause electrical shocks.
- Do not use the W200 if there is visible damage to the housing, power box or cables.
- Patients should not use cellular phones or other communication devices while during the W200 treatment.
- As no clinical data are available regarding the use of Wetling W200 on mucous membranes, application of the device to mucous membranes is not recommended.

Use of other equipment adjacent to this equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 Inches) to any part of the unit, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Wetling – The Company

The WMCS Technology was invented and is patented by the Wetling Group.

For more information about the company and the WMCS Technology, please visit the website.

www.wetlinghealth.com

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