WOUND HEALING

INFECTION

BACTERIA	LIMIT PROLIFERATION, VIRULENCE, FORMATION OF BIOFILM

HEALING

MACROPHAGES	MODULE INFLAMMATION MEDIATORS

GRANULATION

FIBROBLASTS	PROLIFERATION, SYNTHESIS (COLLAGEN), MIGRATION

EPIDERMISATION

KERATINOCYTES	PROLIFERATION

www.medilight-project.eu

PROJECT CONSORTIUM

MEDILIGHT PARTNERS

Coordinated by the Technical University Berlin, MEDILIGHT brings together lead experts from six European countries.

CONTACT

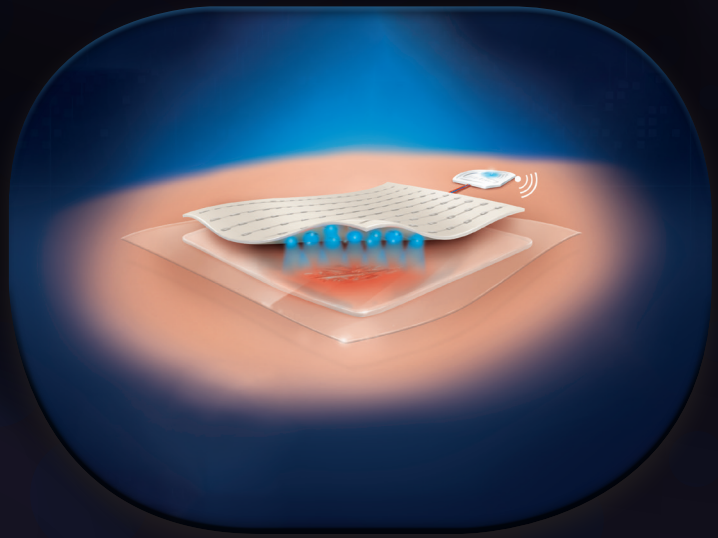
To find out more about MEDILIGHT solution for chronic wound healing, please visit

www.medilight-project.eu

MEDILIGHT

MEDILIGHT PROJECT

MEDILIGHT is a collaborative project on developing a smart, self-adaptable system, which will provide personalized light therapy to patients with chronic wounds.



The device will use recently proven therapeutic effects of visible light to enhance the self-healing process and monitor the status and history of the wound during therapy. The blue part of the spectrum (450–495nm) is known to have antibacterial effects predominantly at the surface layers of the skin. At certain conditions, blue light irradiations were found to also induce an accelerated cell growth of keratinocytes and fibroblasts.

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ABOUT CHRONIC WOUNDS

Chronic wounds represent a significant burden to patients, health care professionals, and health care systems, affecting over 40 million patients and creating costs of approximately 40 billion € annually. The therapy of chronic wounds is very complicated, usually made out of several types of wound dressings or several bandage layers.

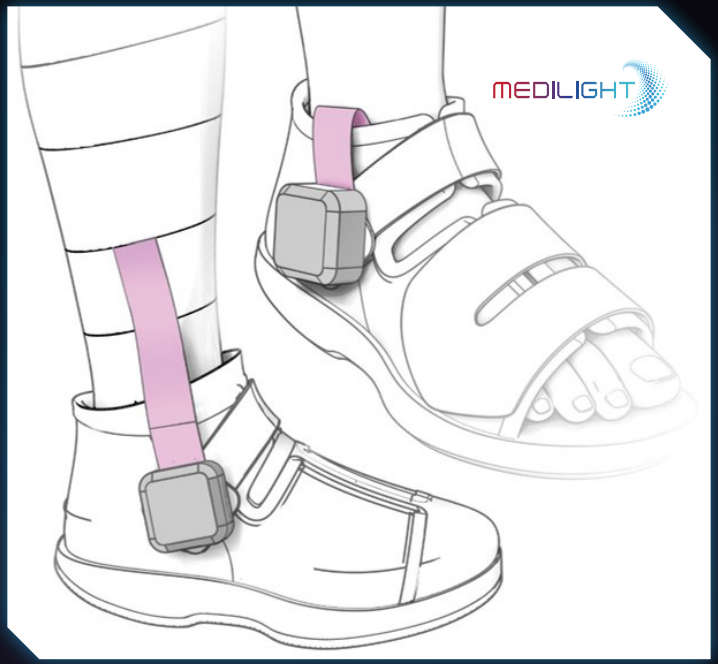
MEDILIGHT PRODUCT

The first medical device combining an absorbent adhesive dressing and a light source:

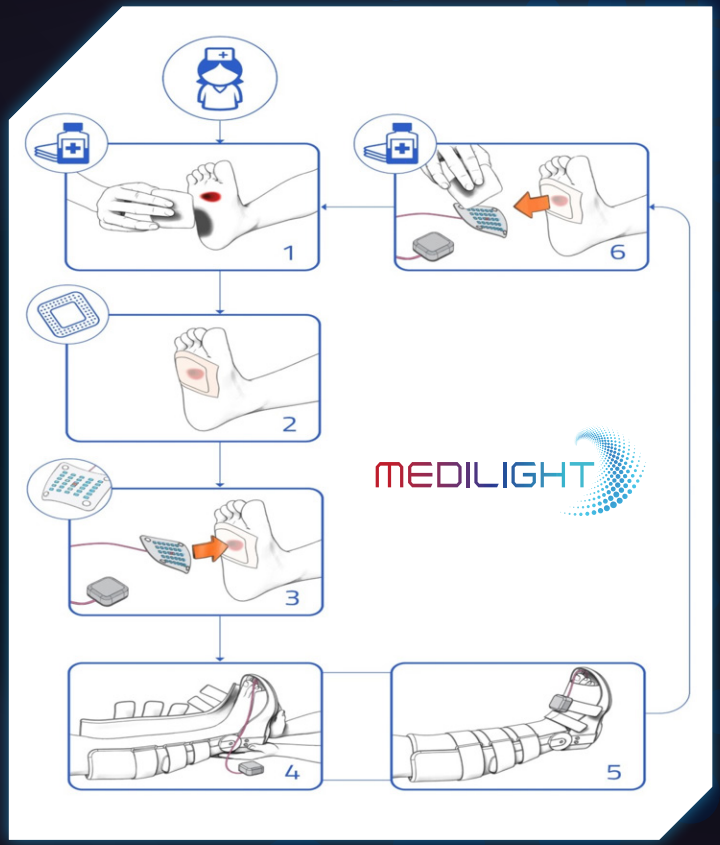
- To optimize the control of bacterial load
- To stimulate fibroblasts and keratinocytes proliferation

BENEFITS

1. Guarantee to keep the right healing process trajectory with a double action on healing and infection
2. Assessment of the angiogenesis quality and infection level thanks to embedded sensors
3. Painless and atraumatic removal
4. Waterproof



CLINICAL APPLICATION



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