

# EVALUATION OF FLUORESCENCE BIOMODULATION IN THE REAL-LIFE MANAGEMENT OF CHRONIC WOUNDS: THE EUREKA TRIAL

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## OBJECTIVE OF THE STUDY

The aim of the EUREKA trial was to confirm the **efficacy** and **safety** of LumiHeal® in the treatment of chronic wounds such as venous leg ulcers (VLUs), diabetic foot ulcers (DFUs) and pressure ulcers (PUs).

## METHOD

Multicenter, prospective, observational, uncontrolled trial in 12 clinical sites in Italy with 99 patients (52 VLUs, 32 DFUs, and 15 PUs). The mean duration of the ulcers was 35.5 months at screening.

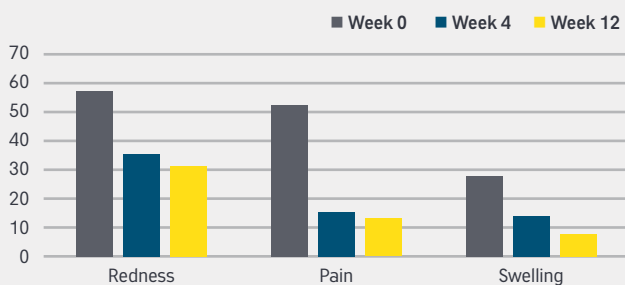
Wounds were cleansed with saline and LumiHeal® gel was applied, twice per week, and illuminated with the lamp. Patients were treated until wound closure, or up to 16 weeks for VLUs and PUs, and 24 weeks for DFUs.

The treatment was used in combination with standard of care specific to each type of wound.

Wound area variation and quality of life (QoL) were assessed for each patient.

## RESULTS

- 81.8% of the treated wounds had a decrease of the wound size area during the study
- At week 10, the mean RWAR (Relative Wound Area Regression) observed was 79.2% compared to screening
- Rapid reduction in redness, pain and swelling during the study period (**Fig. 1**)
- Total wound closure achieved in 47 patients: 26 VLUs (50%); 16 DFUs (50%); and 5 PUs (33.3%)
- No related serious adverse events and significantly increased QoL (15.4% using CWIS\*,  $p < 0.001$ ) **Table 1**



**Fig. 1.** Reduction of redness, pain, and swelling during the study period (% of evaluation of VLUs) (n=52)

| Parameters                       | Variation screening vs follow-up |
|----------------------------------|----------------------------------|
| Social life                      | +11.1% ( $p < 0.001$ )           |
| Wellbeing                        | +27.9% ( $p < 0.001$ )           |
| Physical symptoms & daily living | +11.3% ( $p < 0.001$ )           |
| Total score                      | +15.4% ( $p < 0.001$ )           |

**Table 1.** CWIS\* results in all type of wounds (n=73)

\*Cardiff Wound Impact Schedule

## CONCLUSIONS

- Positive efficacy profile of LumiHeal® in inducing the wound healing process in three different types of hard-to-heal chronic wounds
- Treatment shown to be safe and well tolerated by patients
- Statistically significant improvement in patient quality of life

For more information and before/after pictures, visit the original [publication](#).