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CONTRIBUTION OF BLUE LIGHT IN THE PROCESS OF HEALING: CASE STUDIES ON CHRONIC LESIONS.


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CASE STUDY A: PERI-MALLEULAR DECUBITS
Level of healing: 100%
N of applications: 5
Age: 87 years old
Pathology: CVI
Type and ulcer location: peri-malleular decubitus ulcer
Age of the ulcer: 4 months

CASE STUDY B: TRAUMATIC ULCER
Level of healing: 100%
N of applications: 5
Age: 87 years old
Pathology: CVI
Type and ulcer location: traumatic lower leg injury, tibia face
Age of the ulcer: 4 months
Clinical history: MA treatment in another health institution

CASE STUDY C: TRAUMATIC ULCER
Level of healing: 100%
N of applications: 3
Age: 49 years old
Pathology: CVI
Type and ulcer location: lower leg traumatic ulcer
Age of the ulcer: 11 months
Clinical history: ulcerectomy and homologous skin graft on 1/10. By 10/10 implant was no longer in place.

CASE STUDY D: TRAUMATIC ULCER
Level of healing: 100%
N of applications: 3
Age: 88 years old
Pathology: heart disease, collapsed vertebra and osteoporosis
Type and ulcer location: lower leg traumatic ulcer
Age of the ulcer: 3 weeks

CASE STUDY E: MARTORELL ULCER
Level of healing: 95%
N of applications: 2
Age: 72 years old
Type and ulcer location: lower leg Martorell ulcer
Age of the ulcer: 4 months
Significant reduction of pain

CASE STUDY F: TRAUMATIC ULCER
Level of healing: 95%
N of applications: 4
Age: 82 years old
Pathology: CVI
Type and ulcer location: traumatic lower leg injury, tibia face
Age of the ulcer: 7 months
**References**
Clinical investigation initiated by Dott. G Mosti and Dott. S Gasperini

**Type of ulcers**
Ulcers of various etiology with average age of 5.57 (SD 3.12 months)

**End point**
Measure of healing times

**Method**
Treatment of the wound area for 60s once a week or once a fortnight up to a maximum of 12 weeks.
Registration of the patient relevant data at the beginning of the observation.
Filling of a dedicated form at each visit and photo registration.

Most patients (about 80%) reached healing,* and one patient achieved a consistent reduction of the wound area (60%) within the observation time.

Lesions which achieved complete re-epithelization: 33% obtained it after 3 treatments and a further 44% after 5 treatments.

**Conclusions**
The authors claim, albeit primarily, that Blue Light treatment is an effective and innovative therapy for the treatment of chronic lesions. The interesting preliminary results, based on what has been observed, have led the authors to plan a structured and multicentric study which will involve 90 patients.

*An ulcer that has achieved >90% of re-epithelization is considered healed.*
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