Wound Healing

Photobiomodulation (PBM) is a pain-free, non-invasive treatment method that has been shown to promote wound healing and has been successfully used for the treatment of diabetic foot ulcers and slow healing wounds.

Key wavelengths penetrate through human tissues to locally and systemically affect cellular metabolism, cellular signalling, inflammatory processes and growth factor production, with no damage to DNA or to the surrounding tissues.

Mechanisms

It has been consistently shown in cell models and in human studies that photobiomodulation, when applied to skin wounds, is able to promote major physiological effects, such as:

1. Anti-inflammatory resolution
2. Epithelial and fibroblasts proliferation
3. Collagen synthesis and deposition
4. Revascularization
5. Wound contraction

Photobiomodulation Therapy for Wound Care: A Potent, Noninvasive, Photoceutical Approach. Mosca, Rodrigo Crespo PhD, DDS, MSc; Ong, Adrian A. MD; Albasha, Omar; Bass, Kathryn MD, MBA; Arany, Praveen PhD, BDS, MDS, MMSc. Advances in Skin & Wound Care 32(4):p 157-167, April 2019. | DOI: 10.1097/01.ASW.0000553600.97572.d2

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Please note that Photobiomodulation targets inflammatory and regenerative pathways. It does not necessarily treat any underlying infections as such and is not a substitute for medical care.

DO NOT TREAT UNLESS UNDER PROFESSIONAL CARE

- Suspected or untreated infection (refer for assessment)
- Any active systemic infection (fevers)
- Autoimmune condition in a flare-up, or client on high dose steroids, a client using high dose cortisone/steroids (only treat once tapering to a low dose has begun)

Note any medications being used concurrently.

PROTOCOL

10 minutes	PBM on back
10 min	PBM on front
20-30cm	Panel at 20-30cm depending on heat tolerance

- **Eye protection mandatory**