Photobiostimulation Therapy in Non-Responsive Oral Ulcerative Aftosis: 3 Cases Reports †

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1. Introduction
Ulcerative aftosis are peculiar painful lesions widely observed with common histological and pathological aspect with doubtful etiology and fewer predictable treatments [1]. These lesions are considered with primary importance in detection of some systemic issues and are often related to a wide number of pathological immune and stress-related impairments [2,3]. Elective treatment ranges from light topical anesthetics to aluronate-based topical medications. As a bacterial thesis is proposed but never widely accepted, treatment oriented in antimicrobial way are very common, but presents few predictable results due to high heterogeneity. Here we evaluate a Photobiostimulation tissue-healing protocol [4].

2. Materials and Methods
Three patients were observed, diagnosed and treated in private practice office.

Patient history 1. Male aged 47 years, suffering from anxiety no systemic disease. He does not suffer from recurrent aphthous, referring only few episodes.

Patient history 2. Female aged 34, Hashimoto thyroiditis, recurrent aphthous stomatitis for 2 and a half years. Slow healing of mouth ulcers episodes (Figure 1).

Patient history 3. Female aged 60. Gluten intolerance, absent systemic diseases. 3 Episodes of recurrent aphthosis per year (always single and minor).

Stimulation was performed using light Laser B-cure 808 nm wavelength, 250 mw power (Erika Carmel Ltd., Jerusalem, Israel). It was applied directly on mouth ulcerations for 6 consecutive minutes. The device does not include projective tips, there are no probes to be applied.
3. Results

All patients showed minor and major improvements. After 24 h, no pain symptoms were reported. After 2 days, partial or complete healing of the lesions was observed (Figure 2).

4. Discussion and Conclusions

Photobiostimulations protocols can be applied in the treatment of oral ulcerative lesions in recurrent cases. More reports and in vitro studies are needed to perform severe and well designed clinical protocols.

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References