PHOTOBIO MODULATION ASSOCIATED WITH FITOSCAR® IN TREATMENT OF FOURNIER’S GANGRENE: CASE REPORT

INTRODUCTION

Fournier's gangrene (FG) is necrotizing fasciitis of the perineum, abdominal wall, and genital regions of men and women. It is characterized by obliterating endarteritis with ischemia and thrombosis of the subcutaneous vessels with necrosis and bacterial infection. Complex surgical interventions with coverings and dressings are the treatment of choice for FG. This study aims to present a case report on a patient with FG who underwent photobiomodulation (PBM) associated with secondary covering.

CASUISTRY AND METHOD

Male, 49 years old, admitted to a public hospital in the state of São Paulo on 15 Oct. 2019 with a diagnosis of FG; emergency surgical debridement was performed accompanied by systemic antibiotic therapy. The PBM was applied to wound with a laser and LED cluster. Secondary dressing with FITOSCAR® (extract of Stryphnodendron adstringens) was changed every 48 hours for the ten days of treatment in hospital. The lesions were evaluated using the PUSH scale with the improvement of the border, secretion, and wound center.

Dosimetrics Parameter- Ecco Fibras- Quantum - cluster

<table>
<thead>
<tr>
<th>Wavelengths</th>
<th>2x 660 nm (laser)</th>
<th>3x 460 nm (LED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiant Power</td>
<td>2x 100 mW</td>
<td>3x 400 mW</td>
</tr>
<tr>
<td>Area</td>
<td>2x 0.008 cm²</td>
<td>3x 0.20 cm²</td>
</tr>
<tr>
<td>Irradiance</td>
<td>2x 12.5 W/cm²</td>
<td>3x 2 W/cm²</td>
</tr>
<tr>
<td>Radiant Exposure</td>
<td>2x 750 J/cm²</td>
<td>3x 120 J/cm²</td>
</tr>
<tr>
<td>Operating mode</td>
<td>Continuous (cw)</td>
<td>Continuous (cw)</td>
</tr>
<tr>
<td>Radiant Energy</td>
<td>2x 6 J</td>
<td>3x 24 J</td>
</tr>
<tr>
<td>Time</td>
<td>60 s</td>
<td>60 s</td>
</tr>
</tbody>
</table>

RESULTS

CONCLUSION

It was concluded that PBM associated with FITOSCAR® was satisfactory in the Treatment of FG, reducing hospitalization time as well as hospital costs. The patient was discharged and follow up without the need for hyperbaric oxygen of further surgical interventions.

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We declare that there is no conflict of interest