

PHOTOBIMODULATION ASSOCIATED WITH FITOSCAR® IN TREATMENT OF FOURNIER'S GANGRENE: CASE REPORT

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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

Wavelengths	2x 660 nm (laser)	3x 460 nm (LED)
Radiant Power	2x 100 mW	3x 400 mW
Area	2x 0.008 cm ²	3x 0.20 cm ²
Irradiance	2x 12.5 W/cm ²	3x 2 W/cm ²
Radiant Exposure	2x 750 J/cm ²	3x 120 J/cm ²
Operating mode	Continuous (cw)	Continuous (cw)
Radiant Energy	2x 6 J	3x 24 J
Time	60 s	60 s

RESULTS



1º day- 17/10/19
PUSH: 17



1º day- 17/10/19
PUSH:17



6º day- 22/10/19
PUSH:13



10º day- 29/10/19
PUSH:11



22º day- 17/11/19
PUSH:8
outpatient



35º day- 35/11/19
PUSH:3
outpatient

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 or further surgical interventions.