

TOPICAL TREATMENT OF BXO WITH STABLE OZONIDES WITH VITAMIN E ACETATE (OZOILE) SHOWS SIMILAR ANTI-INFLAMMATORY EFFECTS TO STEROIDS

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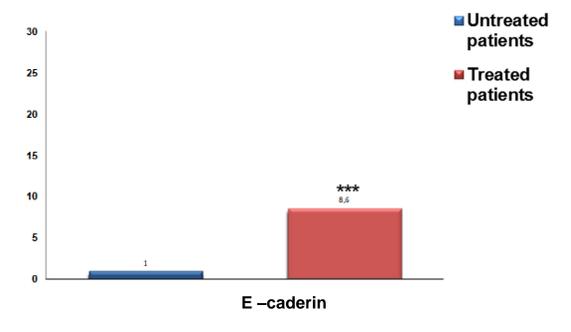
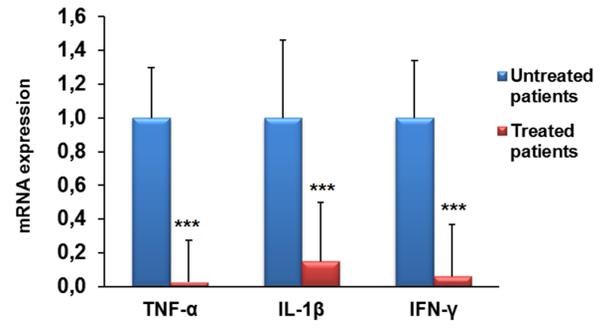
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Background :

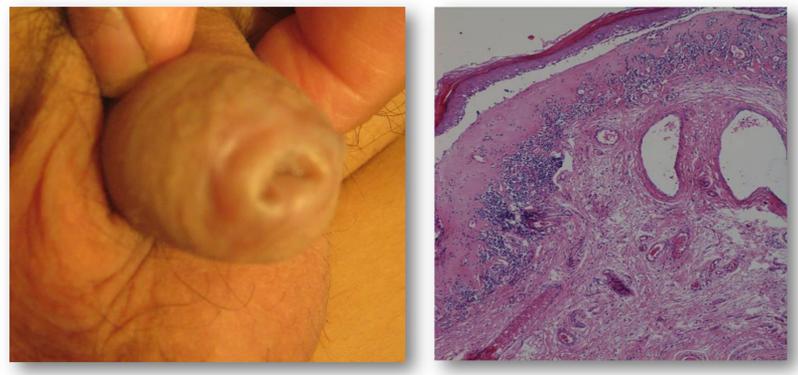


Article
**Anti-Inflammatory and Tissue Regenerative Effects of
Topical Treatment with Ozonated Olive Oil/Vitamin E
Acetate in Balanitis Xerotica Obliterans**

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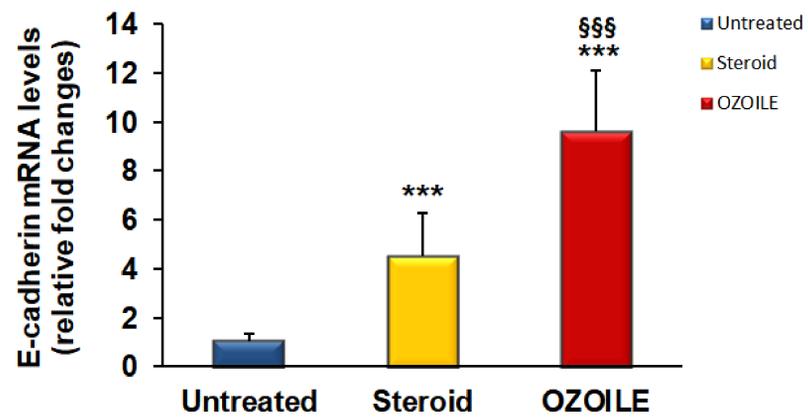
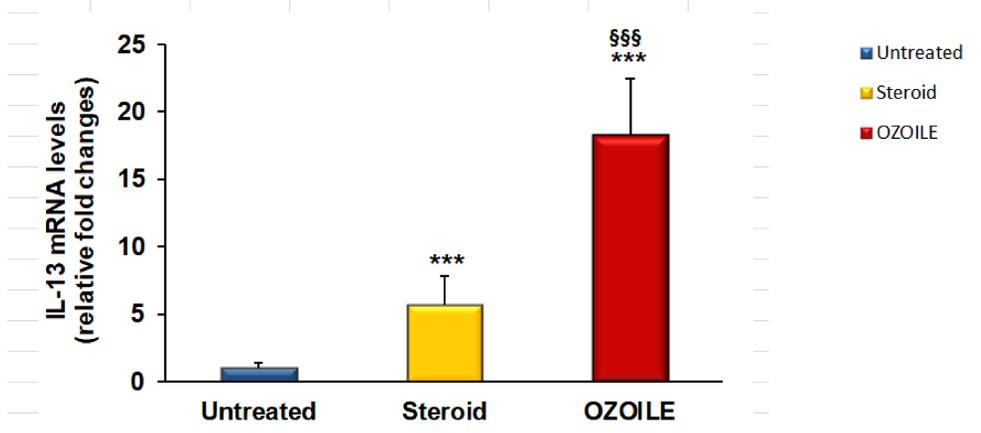
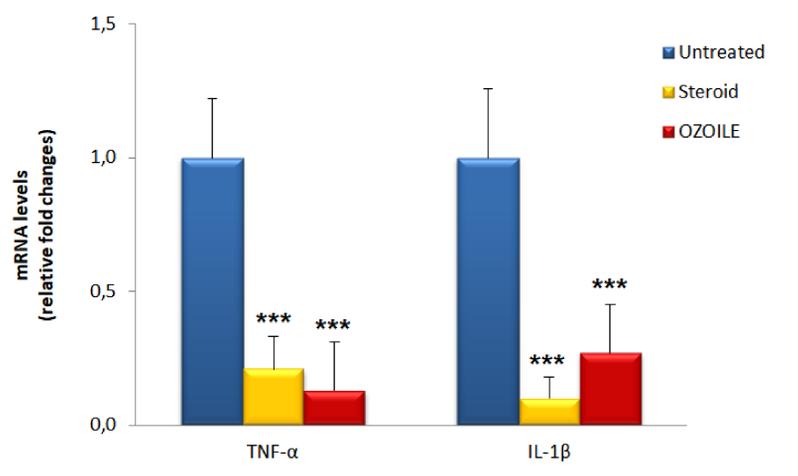
Aim of the Study: Balanitis xerotica obliterans (BXO) is a chronic inflammatory skin disorder of unclear etiology. Circumcision is the treatment of choice, but guideline recommendations suggest the treatment with corticosteroids. Nevertheless, these drugs can have several side effects. We previously demonstrated anti-inflammatory and tissue regenerative properties of Stable Ozonides with vitamin E Acetate Olive Oil (OZOILE) in foreskin with BXO. Here we compared the effects of OZOILE treatment vs topical corticosteroid in foreskin of patients undergoing circumcision for BXO.



Methods: Twenty children undergoing circumcision were treated with OZOILE cream (n=10) or 0.1% Mometasone Furoate (n=10) once a day for 7 days before surgery. Ten age-matched patients affected by BXO without any treatment were recruited as controls. Transcript levels of pro-inflammatory and anti-inflammatory cytokines and e-cadherin were evaluated in removed foreskins by qRT-PCR.

OZOILE

Main Results: We found that OZOILE and steroid topical treatment produced a similar reduction of TNF-α and IL-1β mRNA levels in foreskins from patients with BXO when compared to untreated patients (p<0.001). Both OZOILE and steroid treatment also caused an increase in the transcript levels of IL-13 (18 fold and 6 fold, respectively) and e-cadherin (9 fold and 4 fold, respectively) in foreskins of BXO patients in comparison to untreated foreskins (p<0.001).



Conclusions: Our results are encouraging about the treatment of BXO patients with OZOILE, which could be proposed as a therapeutic alternative to topical corticosteroid. A randomized clinical trial might be useful to compare the efficacy of OZOILE cream with other anti-inflammatory drugs, such as corticosteroids.

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