

A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

DERMOSCOPY AND SKIN IMAGING

IN VIVO CONFOCAL LASER SCANNING MICROSCOPY IN THE CONTROL OF THERAPY OF STRIAE RUBRAE

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Background: Striae rubrae have specific histological signs: edema, changes in the structure of collagen fibers, etc. High molecular hyaluronic acid (hmHA) is an anti-inflammatory agent and engaged in tissue repair and affects proliferation. Succinic acid (SA) normalizes microcirculation. To monitor morphological changes during treatment, non-invasive methods are important.

Objective: To examine the effectiveness of succinic and hyaluronic acids and to evaluate confocal laser scanning microscopy in vivo (CLSM) as a monitoring tool for striae rubrae treatment.

Materials and Methods: The correction of striae rubrae was performed out in 21 female patients aged 18-36 years old with striae severity ranged from 8 to 12 points by the Atwal scale. We used a preparation (1,1%) containing hmHA (18 mg/ml) and SA (16 mg/ml). Patients received 2-4 ml (papular injections) on the area of striae and 2 cm of surrounding intact skin. The course included from 5 to 6 procedures (1 every 2 weeks) depending on the striae severity. Results were evaluated using Atwal Scale score changes and CLSM data obtained on the first and the last day of the course, and 30 days after the end of the course.

Results: Two weeks after, skin improvement was observed in all patients to a variable degree. There was a decrease in the number and size of the striae, blanching of the striae. CLSM showed positive changes in the structure of the epidermis and derma: infiltration and edema were decreased, normalization of vascular functions and improvement in the structure of collagen fibers were observed.





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Conclusions: The protocol of treatment employing preparation containing HA and SA (1.1%) can be effective for the striae rubrae correction in young women. CLSM can be an effective tool for the therapy monitoring. In patients with high severity, we recommend using a longer course of treatment (7-8 procedures).



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