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Zhanna Yu Yusova[1]

Tatiana V Stepanova[2] and Andrey Yu Alenichev[3]

[1]Central State Medical Academy, Russia.

[2]Center for Aesthetic Medicine, Russia

[3]The Clinical Institute of Anti-Aging Medicine, Russia

The role of PRP therapy in tissue repair after micro-focused ultrasound therapy

Aesthetic medicine currently uses a wide arsenal of hardware methods, including high-intensity technologies. However, the clinical effect of the procedures performed is not equally obtained in different patients. Most likely, the result of exposure to high-intensity technologies with controlled tissue damage has a certain dependence on the regenerative potential of tissues. To improve the regenerative ability of tissues PRP therapy is widely used. In our study, we studied the usage of a combined method of microfocused high-intensity ultrasound in combination with PRP therapy for the treatment of various morphotypes of involutive skin changes.

The study involved 220 patients with involutive skin changes. 2 main equal groups for the therapy were formed depending on the therapy. In each main group patients were divided into 3 subgroups according to the predominant morphotype of aging. Diagnostic manipulations were performed before procedure as well as after 1, 3, 6 and 12 months.

When using monotherapy with microfocused ultrasound in order to correct involutive skin changes, with all morphotypes of aging, a post-procedural compensatory reaction develops within 6 months in the form of an increase in the thickness and acoustic density of the epidermis. This factor indirectly indicates the recovery period of tissues, in which it is impractical to carry out other stimulating procedures to improve the quality of the skin. After 12 months, the indicators of dehydration are leveled out with a complete restoration of dermo-epidermal structures.

In therapy with combined microfocused ultrasound and plasma enriched with growth factors, a faster and more physiological result of dermal remodeling was obtained in patients with different morphotypes of skin involution.

According to the results of the study, more effective result of dermal remodeling was proved in patients with various morphotypes of skin involution with combined therapy with microfocused ultrasound and plasma enriched with growth factors.

Recent Publications

1. Zhanna Yu Yusova, Tatiana V Stepanova, Elena L Baranova, Diana V Demidion. Correction of involutional skin chahges using microfocused ultrasound combined with PRP-therapy. Electronic Journal of General Medicine. vol.16, Issue 6, 2019, em. 175.

2. Yusova Zh Yu., Stepanova T V., Belyakov P A. Combined use of micro-focused ultrasound and autologous plasma with cells in the correction of involutive skin changes. Medical Alphabet. Dermatology Series. 2019, Vol. 2, No. 26 (401), pp. 105-109.

3. Yusova Zh.Yu., Stepanova T.V. Micro-focused ultrasound in combination with PRP therapy in the correction of involutive skin changes.PlasticSurgeryandAestheticMedicine.2020;No.4,pp.34-40.

Speaker Biography

Zhanna Yu Yusova holds a Doctor of Medicine, professor of department of dermatology and cosmetology FGBU DPO "CGMA" of The Office of the President of The Russian Federation, Russia. A member of EADV, a member of various Russian Associations of aesthetic medicine specialists. Certified trainer of the companies MERZ, Hyalual, Martinex. Chief medical officer of the clinic of aesthetic medicine in Moscow, Russia. The author of patents own medical, therapeutic and preventive protocols, the creator of the unique author's techniques for injection contour plastics of the face and BTA. Medical practice in dermatology and aesthetic medicine is over 22 years. A participant and speaker of national and international congresses and workshops on aesthetic medicine.

e: zyusova@mail.ru