

THE MECHANISM OF THERAPEUTICAL EFFECT OF LASER THERAPY AND CREAM CHISTOTEL AT THE PATIENTS WITH THE SKIN ANGEITIS AND PREPARATION LEFNO AT THE PATIENTS WITH THE ARTHROPATIC FORM OF PSORIASIS TO THE IgE

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ANNOTATION: The aim of work was to study the effectiveness of laser therapy in patients with arthropathic form of psoriasis and angiitis of the skin based on changes of immunological parameters. Forty-five patients were observed. There 25 patients with angiitis (10 males and 15 females), 25 patients with arthropathic form of psoriasis (12 males and 13 females). In combined use of laser therapy positive changes were revealed in all the patients. During the treatment concentration of IgE was reduced to normal limits.

Keywords: laser therapy, skin angiitis, arthropathic form of psoriasis, low level laser therapy, IgE (immunoglobulin – E).

Urgency. The problem of treatment of autoimmune dermatoses enough actual, that is connected with a significant spread and severe course of dermatosis. Particularly well developed, drug therapies, as the drugs are not always effective and sometimes is associated with the appointment of various side effects and complications, sometimes very heavy [1, 2, 3, 4, 5, 6]. One of these effects is the laser therapy Milta-F-8-01 (Figure1).

Laser therapy is still widely introduced into clinical practice, since it is a relatively safe and quite effective method of treatment. In recent years, the use of laser therapy for therapeutic purposes is increasingly used in many disease states. The main objective of laser therapy is a modulation of adrenergic and cholinergic mechanisms of regulation of metabolic and energy processes [7, 8, 9, 10, 11, 12, 13, 14, 15].

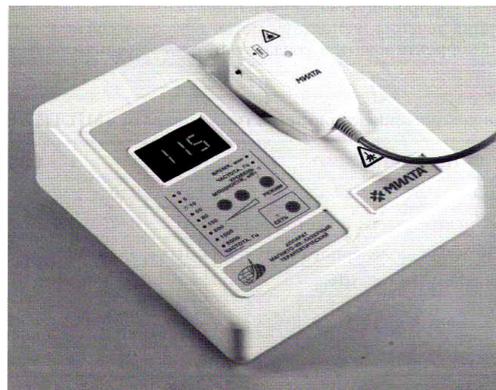


Figure 1: Milta-F-8-01

The purpose of research - is the study of the mechanism of laser therapy, therapeutic effect on immunologic parameters in patients with vasculitis of the skin and psoriasis Arthropathic.

Materials and methods. The aim of this work is to study the effectiveness of laser therapy using gel Celandine patients skin vasculitis and Lefno the drug in patients with psoriasis Arthropathic considering the changes in some parameters of the immune system.

The study included 50 patients. Of these skin vasculitis suffered 25 patients (10 - men and 15 - women, aged 20 to 50 years), Arthropathic psoriasis - in 25 patients (12 - men and 13 - women, aged 19 to 45 years). Diseases of different lesions, long and persistent course, resistant to prior therapy, including several patients to corticosteroids, cytostatics.

Patients with skin angiitis (table number 1, picture number 2) and Arthropathic forms of psoriasis (table number 1, number 2) has been selected laser therapy mode.

Table №1

Modes irradiation treatment zones in the treatment of skin angiitis

Radiationarea	Terminal	Frequency Hz	Power LED smW (laser, W)	Nozzle	Exposition, minutes
The skin, the affected area	KT3-4	1500-5000	50	№ 7/MN	4-10
Epigastric	OT2-3	600	40	№ 7/MN	4-5
Spine, L2-S1	MT	150-300	30 (50-60)	BN	3-6

Duration of course low-level laser therapy (LLLT) - at least 12-14 procedures.

Table №2

Modes irradiation treatment zones in the treatment of psoriasis Arthropathic

Radiationarea	Terminal	Frequency Hz	Power LEDs mW (laser, W)	Nozzle	Exposition, minutes
Directedlaserirradiation	KT1	1500	30	№ 7	4-6
Psoriaticlesions	KT1	1500-5000	50	№ 7/MN	4-6
Spine, Th1-Th2	MT	150-300	40 (25-30)	BN	2-4

The duration of the course of laser therapy (RT) - at least 12-14 procedures.

The duration of the laser therapy procedure lasts about 2-10 minutes. Treatments were performed daily, except Sundays. The frequency and number of treatments determined clinical effectiveness of dynamics and ranged from 12 to 14 laser therapy treatments.

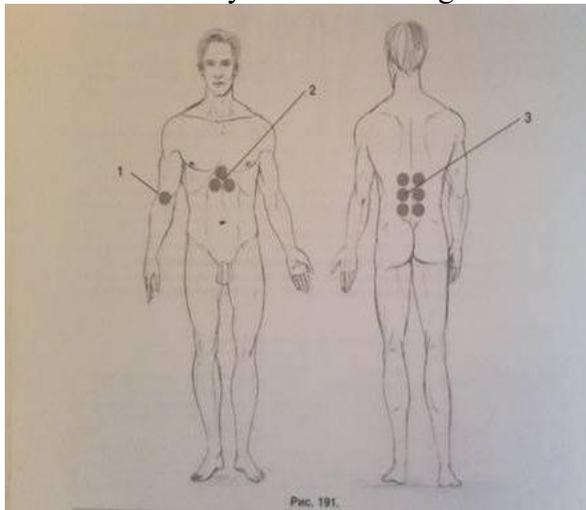


Figure2.

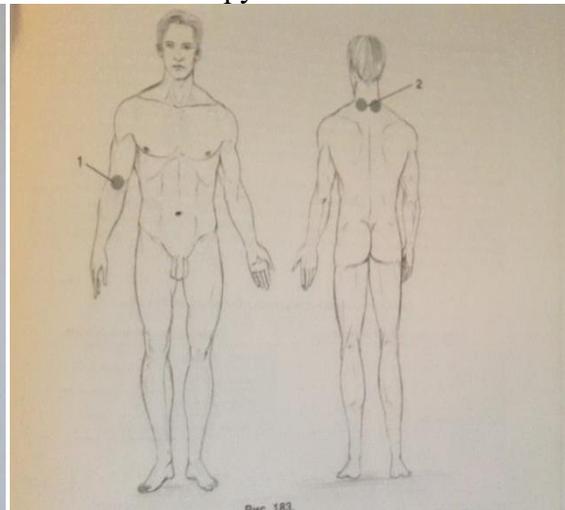


Figure3.

In addition, patients were: Patients with vasculitis skin lubricated - gel Celandine (smeared 2 times a day with a thin layer).

Patients Arthropathic form of psoriasis received the drug "Lefno" 1 tablet 3 times a day, a course of treatment of 14 days. Externally lubricated - "Cream-balm Seabuckthorn with mummy" (greased 2 times a day with a thin layer).

IgE levels were determined by enzyme immunoassay. In the control group, received 10 donors, IgE level does not exceed 120.0 ± 3.46 IU/ml. This method was developed by «ABBOTT» (USA) and is based on the method immunological binding to the solid phase to determine the IgE.

Discussion of the results

Positive dynamics on the background of laser therapy was observed in all patients. Patients with skin vasculitis treatment laser therapy is the development of resistance to standard therapy with corticosteroids. In the treatment method of laser therapy and external therapy using "Celandine" gel contact was found the effectiveness of the skin process - reduced subjective pain, rashes paled, noted epithelialization of erosions and ulcers. After 8-10 laser therapy procedures noted the cessation of pain, hemorrhagic lesions regress, epithelization of erosions and ulcers scarring.

In the treatment of laser therapy, the drug "Lefno" and external therapy using "Cream-balm Seabuckthorn with mummy" in patients Arthropathic form of psoriasis, after 6-8 treatments of pruritus intensity sharply decreased, decreased subjective pain in the joints, after the 10- 14 laser therapy treatments resolved psoriatic lesions, exudative components were eliminated and psoriatic plaques was observed cessation of subjective pain in the joints.

Given the fact that IgE plays a significant role in the pathogenesis of skin angiitis and Arthropathic psoriasis was advisable to follow the change of its concentration in the blood in these patients. IgE was determined by the dynamics of skin angiitis 20 patients and 20 patients Arthropathic form of psoriasis.

Prior to laser therapy and topical treatment with the gel "celandine" in patients with vasculitis skin IgE levels averaged $518,9 \pm 30,5$ IU/ml after the treatment of laser therapy IgE level was $479,8 \pm 24,3$ IU/ml. By repeating the procedure of laser therapy was noted in patients with IgE levels decrease concentration to $157,1 \pm 7,3$ IU/ml.

Prior to laser treatment in patients arthropathic psoriasis IgE level was on average 597.7 ± 25.8 IU/ml after treatment and laser therapy drug Lefno IgE level was 193.5 ± 19.7 IU/ml.

Conclusions: As a result of the research we came to the following conclusions:

1. Implementation of laser therapy procedures indicated in patients of skin angiitis, in which the skin is accompanied by expression of subjective pain, presence of erosions and ulcers.
2. Implementation of laser therapy is indicated in patients Arthropathic psoriasis accompanying subjective pain sensations in the joints, the presence of psoriatic lesions and plaques.
3. Conduct laser therapy specifically indicated for dermatoses forms that accompany changes in the immune system.

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