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Research Article

EXPERIENCE OF USING STEM CELLS IN PATIENTS WITH ATOPIC DERMATITIS

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ABSTRACT

Recent research in this area has shown that in many tissues, including skin, stem cells become dormant as they mature, slowing down their rate of division and not responding as effectively to stimulation [1]. A decrease in the activity of stem cells leads to the fact that the rate of skin renewal slows down and defects begin to accumulate in it; the skin ages [2]. Recently, the attention of scientists has been attracted by plant stem cells, which produce a complex of molecular regulators that are universal. These regulators are capable of changing the functioning of human skin stem cells, partially returning them the energy of youth [3]. One of the most popular ingredients today is Swiss apple stem cells. Each adult apple stem cell can independently generate new cells and, in a concentration of just 0.1%, stimulate the division of human stem cells by 80% [4]. Phytostem (plant) cells were discovered relatively recently - only in the second half of the 20th century [5]. And the most effective in influencing human cells are considered to be plant stem

cells, green apple phytostem cells. Scientists have proven that they are active biostimulators of human cells [6]. Plant cell preparations are absolutely hypoallergenic, unlike those obtained from animal or human tissues.

KEYWORDS

Atopic dermatitis, allergies, phytostem cells, food and household allergens.

INTRODUCTION

Atopic dermatitis (AD) is a chronic, recurrent inflammatory skin disease with a complex pathogenesis, involving genetic predisposition, immunological and epidermal barrier dysfunction, and environmental factors [7]. The main symptom is pruritus; Skin lesions range from mild erythema to severe lichenification and erythroderma. A thorough history and narrow examinations are required to make a correct diagnosis. Treatment includes recommendations for proper skin care, avoidance of triggers, and topical use of corticosteroids and immunosuppressants. Treatment of itching and superinfections is also important. In severe cases, systemic immunosuppressive therapy may be required [8]. Atopic dermatitis that develops in childhood often regresses or its manifestations significantly weaken in adults [9].

For symptoms of atopic dermatitis, treatment and selection of the optimal way to combat the disease should be carried out under the supervision of a physician [10]. However, cell therapy in this case is most effective. This treatment method is characterized by a large number of advantages and allows to achieve

the effect as quickly as possible without the development of any side effects or complications [11]. Stem cells primarily harmonize the activity of the immune system. And this ensures a significant reduction in the patient's tendency to develop allergies. In addition, this method allows you to renew the cellular composition of all layers of the skin, which leads to minimizing the severity of external manifestations of dermatitis [12].

The purpose of the work was to study the clinical effectiveness of drugs containing stem cells of plant origin from Nabi-distribution. Two drugs from this manufacturer were studied: Cryoflora Nutra and Nutra stem cell. Cryoflora Nutra contains mulberry leaf extract, snow algae chlorophyll, and wheatgrass. Nutra stem cell contains apple and grape stem cells.

Purpose of the study: to study the clinical effectiveness of drugs containing stem cells of plant origin from the «Nabi – distribution» company. Two drugs from this manufacturer Cryoflora were studied Nutra and Nutra stem cell . Cryoflora Nutra contains mulberry leaf extract, snow algae chlorophyll, and wheatgrass. Nutra stem cell contains apple and grape stem cells.

METHODS

From May to September 2023, a clinical study was conducted on 40 patients with a verified diagnosis of atopic dermatitis of varying severity, aged 30-55 years. Of these, 15 are women, 25 are men. All patients provided written consent to participate in the study. Patients were prescribed Cryoflora Nutra 2 times a day and Nutra stem cell 1 time a day for 1 month.

RESULTS

All patients in the study group tolerated the therapy positively and reported no side effects. In 93% of patients, the acute course of the skin inflammatory process with atopic dermatitis tended to transition to subacute; 7% of patients did not note clinical improvement while taking these drugs.

MATERIALS AND METHODS

From May to September 2023, a clinical study was carried out on 40 patients with a verified diagnosis of atopic dermatitis of varying severity, aged 30-55 years. Of these, 15 are women, 25 are men. All patients provided written consent to participate in the study. Patients were prescribed Cryoflora Nutra 2 times a day and Nutra stem cell 1 time a day for 1 month.

Nutra stem cell contains Uttwiller apple stem cells Spatblauer Swiss apple - a rare type of apple from the 18th century, capable of self-healing and great resilience. It was discovered by a team of scientists in Switzerland and later scientists successfully developed the Uttwiller Spatblauer Swiss apple stem cell. Unlike other types, Dettwiller Spatblauer Swiss apple stem

cell has more energy. Studies have shown that 0.1% concentration of PhytoCellTec can activate and regenerate 80% of stem cells in the human body. It also contains grape stem cells from the rare Gamay grape variety Teinturier Fr. This grape variety comes from the Burgundy region of France and contains extremely high levels of anthocyanin, which is why the pulp and juice are red. It is rich in antioxidants that help protect the skin from free radicals generated by PhytoCellTec™ Solar Vitis grape stem cells protect the body's epithelial stem cells from aging.

Cryoflora Nutra contains mulberry leaf extract, which has been used for medicinal purposes for many centuries. The benefits of mulberry leaves lie in their composition. The presence of vitamins and essential oils allows them to be used to treat many diseases. Mulberry leaf extract helps normalize heart tone, blood pressure and thin the blood. Also contains snow algae chlorophyll, which resembles the structure of blood and helps restore and replenish blood in the body. Rich in magnesium, which has an alkalizing effect on the body. Charges the body with energy and reduces fatigue. Removes toxins from the body that cause chronic diseases. Snow algae contains chlorophylls, which cleanse the gastrointestinal tract, improving digestion and absorption.

Viagress is an accelerated and effective cleansing of the body, removes toxins, oxidation products, and other waste. Thanks to the mineral enrichment of the body, the work of the endocrine and reproductive

systems is activated, the efficiency of the functioning of the kidneys, liver, and lungs increases. The hematopoietic process is also stabilized, the blood composition is treated antiseptically, and the transport function improves.

RESULTS

The effectiveness of therapy was assessed according to the following criteria: disappearance or reduction of skin manifestations using the SCORAD indicator.

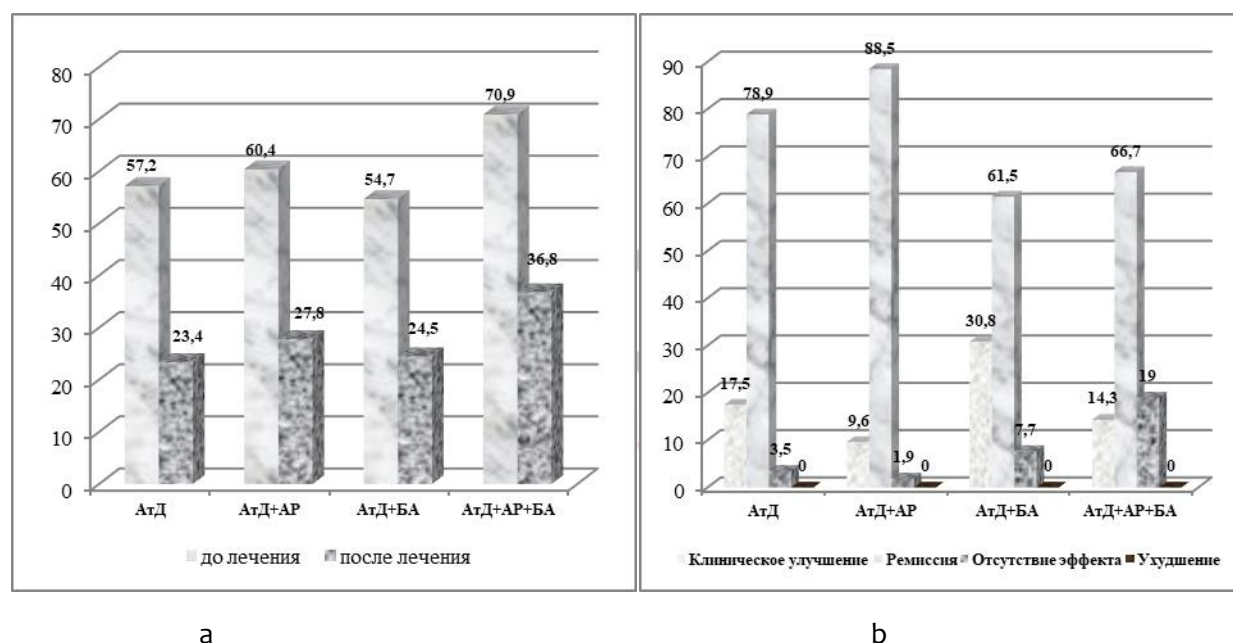


Fig.1. Dynamics of changes in the SCORAD index (score) (a) and treatment effectiveness (b) in patients with atopic dermatitis during treatment.

In patients with AD, incomplete remission was observed in 17.6%, complete remission was established in 78.9% of treated patients, and we observed no effect in 3.5% of patients

Thus, the use of pathogenetic therapy with phytostem cells in patients with atopic dermatitis as part of a

Studies have shown a significant decrease in the skin manifestations of AD: the frequency of papular-erythematous rashes, dry skin, lichenification and excoriation. This is confirmed by a decrease in the SCORAD indicator (Fig. 1a). Thus, in the group of patients with AD during treatment, the index decreased by 2.4 times.

complex standard treatment made it possible to achieve an improvement in the clinical condition of patients.

CONCLUSION

Preparations containing stem cells of phyto origin Cryoflora Nutra and Nutra stem cell were well tolerated by all patients, no side effects were noted. These drugs can be used as pathogenetic anti-

inflammatory therapy in the treatment of atopic dermatitis.

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