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Modern approach to the treatment of vitiligo

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Currently, external liposome-based products are considered the most effective and advanced in the treatment of vitiligo.

The purpose of this work is to obtain a liposomal substance from natural lipids and its use for patients suffering from vitiligo. The main function of liposomes is the delivery of physiologically active substances and drugs inside the cells. By incorporating biologically active substances, vitamins, antioxidants, trace elements into the composition of the liposomes, these ingredients can be delivered to the deeper layers of the skin, which leads to changes in metabolic processes and improved physiological and pathological conditions in the skin.

In our studies, phospholipids and cholesterol for liposomes were obtained from cattle brains. Multilayer liposomes were created by the traditional method by using ultrasonic lipid treatment. The liposomes were encapsulated with the antioxidant α-tocopher, trace elements - zinc, copper, and the amino acid tyrosine. On the basis of the prepared multicomponent liposomal substance, the domestic product was developed in aer osol form. Toxicological study created by the tool showed a complete lack of toxicity. Experiments conducted on laboratory animals have established that has the ability to retain moisture in the skin and to be a potential moisturizing agent, which has antioxidant, membrane-modifying, transporting, reconstructing, melanogen-stimulating action.

Conclusion: The clinical application of the developed multicomponent liposomal drug in patients with vitiligo convincingly shows that external use significantly exceeds the standard method of therapy in therapeutic efficacy and has transporting, membrane modifying, antioxidant and melanogenesis-stimulating properties.

Recent Publications

1. Konstantinova VA, Olisova OY, Gladko VV, Burova EP. Vitiligo – New Treatment Approach. Clin Cosmet Investig Dermatol, 2019; 12:911-917
2. Manga P, Elbuluk N, Orlow SJ. Recent advances in understanding vitiligo. F1000Res. 2016;5:F1000 Faculty Rev-2234.
3. Katz Erica L., Harris John E. Translational Research in Vitiligo. Frontiers in Immunology, 2021, 12.

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