



MEDICAL THERAPIES AND PHARMACOLOGY

## COMBINED TREATMENT OF STABLE VITILIGO USING CELL TECHNOLOGIES.

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**Introduction:** The disfiguring aesthetic features of vitiligo, may result in significant negative psychosocial effects. Its high rate of occurrences, considerable influence of patient psychological status as well as the absence of reliable treatment methods dictates the current need to look for new ways of vitiligo treatment.

**Objective:** Considering advantages and disadvantages of existing methods of skin repigmentation, we developed complex approaches of stable vitiligo treatment. The aim is to study the efficacy and long-term effectiveness of the developed complex for stable vitiligo treatment with the use of cell technologies compared with traditional treatment methods.

**Materials and Methods:** Our stable vitiligo treatment method consist of: donor site preparation (pigmentation induction), recipient vitiligo site preparation (intra dermal platelet-rich plasma injections) along with intra dermal administration of melanocytic-keratinocyte suspension, diluted in PRP solution, into depigmented skin sites followed by local UV phototherapy (308 nm).

All patients were divided into 4 groups depending on the skin phototype and performed therapy. The 1st group (14 people, Fitzpatrick I and II phototype) and 2nd group patients (20 people, III and IV phototype), they were both treated according to the treatment protocol developed by us. 3rd control group (17 people, I and II phototype) and 4th group (21 people, III and IV phototype) – both were treated by standard vitiligo treatment (narrow-band UVB 311 nm, external treatment).

**Results:** In the 1st and 2nd groups we observed remarkable reduction of the length of treatment comparing to the control groups and increased percentage of patients with excellent results. The duration of follow-up was 2 years consistent with stable results.

**Conclusions:** The method has demonstrated its high efficacy, safety (as compared to surgery), shorter treatment course, possibility to treat larger vitiligo areas by means of small donor site, way of long term storage of cell material in cryobank for future use.

