

THE NEW APPROACH IN ESTIMATION OF THE EFFICIENCY OF THE SCAR TREATMENT

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The hypertrophic scars are a frequent outcome after healing of the burns. Even today, the diagnosis is based mainly on clinical judgement, since no no-invasive physical or laboratory tests are yet capable of valuating the current state of a skin scar or for predicting its evolution and outcome.

We have used the method of the estimation of the content of "free" and "bound" water in the skin. The determination of the water content was provided by the method of ultra-high-frequency dielectrometry on the 55 MHz. The estimation of the parameters of the skin hydration was provided on the basis of model of Maxwell-Vagner. We have examined parameters of skin hydration on different parts of the patients of different age and sex. We have used this method in course of the treatment of 54 patients for control of the state of the scars. The obtained diagnostical criteria may be used for prognosis of scar outcome and for estimation of the efficiency of scar treatment.