**NON-INVASIVE INSTRUMENTAL METHODS FOR EVALUATING THE STRUCTURAL AND FUNCTIONAL BASIS OF SKIN AGING**

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| **Heading** | CLINICAL OBSERVATIONS |
| **Type of article** | Scentific article |
| **Annotation** | Objective. To characterize the development of dermal involutional-dystrophic changes using non-invasive instrumental methods.Materials and methods. 4 groups of patients with involutional changes were examined: 25–35, 36–45, 46–55, 56 years and older, as well as a group aged 25–35 years, in which patients had no signs of chrono- and photoaging. The skin condition was studied by ultrasonographic measurement of the epidermis and dermis thickness, the skin acoustic density, as well as conducting corneometry and vaporimetry.Results and conclusions. Involutional-dystrophic changes in the skin are accompanied bypronounced age-related changes in structural and functional parameters. There is a significant thinning of the epidermis and dermis, a decrease in acoustic density andindicators of corneometry, as well as a significant increase in transepidermal water loss in patients with age. Significant age-related changes in parameters are detected alreadyin the group of patients of 36–45 years old. This indicates that objective tissue signs ofdystrophy appear much earlier than clinically expressed. Timely instrumental examination can increase the effectiveness of anti-aging therapy |
| **Tags** | skin aging, ultrasonography, corneometry, vaporimetry |
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