**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 by  pronounced age-related changes in structural and functional parameters. There is  a significant thinning of the epidermis and dermis, a decrease in acoustic density and  indicators of corneometry, as well as a significant increase in transepidermal water loss  in patients with age. Significant age-related changes in parameters are detected already  in the group of patients of 36–45 years old. This indicates that objective tissue signs of  dystrophy 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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