

〈原 著〉

画像解析による皮膚表面形態の季節変化と 肌荒れに関する研究

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A Study of Seasonal Changes in Skin Surface Configuration and Rough Skin by Image Analysis

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Abstract

The seasonal changes in human skin surface were studied by image analysis method. In the winter, especially, the lower water content was observed in the stratum corneum according with the low atmospheric humidity. Under the such conditions, the distance between a furrow and the next crest was increased accompanied with decreasing the number of furrow-crest. These results were similar to those of an artificial rough skin which was induced by closed patch using sodium dodecyl benzenesulfonate. The artificial rough skin was improved markedly in the water content of stratum corneum and the surface configuration by topical application of a hyaluronic acid-S.E.-glycerol formulation.

Key words: 1. Image analysis 2. Skin surface configuration 3. Rough skin
4. Water content of stratum corneum 5. Hyaluronic acid 6. Glycerol