

<原 著>

加齢に伴う健常人皮膚表面形態の変化および性差

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A Study of Age-related Changes between both Sexes in Human Skin Surface Configuration by Image Analysis

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Abstract

The skin surface configuration was observed by an image analysis method on replicas collected from cheeks and forearms of 70 persons, 35 females and 35 males, from 12 to 84 years. It was found that the number of furrow-crests per field of the skin decreased with age, horizontal distance and irregularity of them increased with age, therefore a good correlation was found between age of the subjects and each three parameters. The changes of these parameters with age were similar to those of rough skin occurred in summer to winter and to those of an artificial rough skin induced by closed patch using sodium dodecyl benzenesulfonate. These findings suggest that the roughness of the skin increased with age. The linear regression slopes of females were steeper than those of males. Especially in the average number and the horizontal distance of furrow-crest per field, significant difference was observed between the two linear regression slopes of both sexes.

Key words: image analysis; skin surface configuration; rough skin; aging; correlation; sex