

〈原 著〉

皮膚表面色調不均一性の加齢変化

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Changes of Ununiformity of Skin Color with Ageing

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Abstract

Although it is well known that skin color on the face changes with ageing, the ununiformity of skin color changes in various ages, is not fully examined. In order to confirm the existence of the ununiformity, we measured skin color on female cheeks using a spectrophotometer and a digital image analyzer. The L^* , a^* and b^* values of skin color of the seventy-five volunteers (11–59 years) did not change with age. However, the standard deviation of the L^* values, which indicates the ununiformity in the distribution of skin color, increased with ageing. We elucidated that not only the ununiformity of the distribution of skin color, but also the ununiformity of size and position existed in the pigmented area. The ununiformity of size and position in the pigmented area, which was obtained by extracting low L^* value, also increased with ageing.

Key words: ageing, skin color, ununiformity, Voronoi division, image analysis.