

〈原 著〉

身体各部位の皮膚生理に関する研究

－ 皮下脂肪厚との関連性 －

村上 泉子*, 梶原 理恵*, 林 照次*, 新井 清一*,
永井由美子**, 山崎 和彦**, 飯塚 幸子**

Physiological Study of Human Skin － The mutual relation with skinfold thickness －

Motoko Murakami¹⁾, Rie Kajiwara¹⁾, Syoji Hayashi¹⁾
Seiichi Arai¹⁾, Yumiko Nagai²⁾, Kazuhiko Yamazaki²⁾, and Sachiko Iizuka²⁾

Abstract

The purpose of this study was to examine skinfold thickness, hydration state and water holding capacity of the stratum corneum, extensibility, recovery rate, skin color, skin temperature, skin pH and sebaceous gland activity at 15 sites of the body surface. Their characteristics, age-related differences and relation between skinfold thickness and physiological data were studied in 20 healthy middle-aged women (40-53 yr) and 21 healthy young women (20-24 yr). The obtain results were as follows:

- (1) Extensibility of the skin showed age related differences on the cheek, hand, anterior part of thigh and back. Recovery rate was lower in middle-age group than in the young-aged group on the whole body.
- (2) Sebaceous gland activity was lower in the middle-aged group than in the young one to a remarkable extent on the cheek, back and neck.
- (3) A significant correlation was found between the skin color and the skinfold thickness, which was more striking for the middle-aged group.
- (4) Sebaceous gland activity showed a correlation with skinfold thickness and was lower in regions with thick skinfold thickness regions.

Key words: physiological study; skinfold thickness; skin; body care