

〈原 著〉

香粧品による皮膚炎と 月経周期に伴う皮膚生理機能の変化との関係

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Relationship between Cosmetic Dermatitis and Functional Changes of the Skin in Menstrual Cycle

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Abstract

The aim of the present study is to elucidate the effect of menstrual cycle on the function of the skin and to discuss the role of menstrual cycle in the pathogenesis of cosmetic dermatitis. We made questionnaires for 236 female students and female staffs in Showa University. Forty-nine of 236 (20.8%) females experienced cosmetic skin trouble and also complained change of symptoms during menstrual cycle, mainly on the premenstrual period. Seventeen of these 49 females regarded the change of symptom in menstrual cycle as contact dermatitis due to cosmetics. We selected 10 females who experienced cosmetic skin trouble and had development or exacerbation of cosmetic trouble coincided with some menstrual cycle, and 4 females who never faced to cosmetic skin trouble, to take the basal body temperature (BBT) figure, and to measure skin surface temperature, the skin surface hydration, and the skin surface lipid. Anything but one female showed two phase pattern in their BBT. Skin surface temperature tended to parallel the BBT. Skin surface hydration had a tendency to be increased in premenstrual and menstrual period. Skin surface lipid on the frontal and mandibular region significantly elevated in premenstrual period ($p < 0.01$) and menstrual period ($p < 0.05$). As for these functional changes of the skin in menstrual cycle, there was no differences between 10 affected females and 4 control females. Four out of 10 affected females showed exacerbation of acne, and another female of 10 affected females also exhibited that of seborrheic dermatitis in premenstrual period. The present study on the functional changes of the skin in menstrual cycle could not clarify the relationship between menstrual cycle and cosmetic dermatitis.