

〈原 著〉

ヘパリノイドの化粧品的使用性について

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The Usefulness of Heparinoid in Cosmetics

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Abstract

Ointments containing mucopolysaccharide heparinoid are very effective in treating xerotic skin lesions and in promoting blood circulation. To explore cosmetic applications, the effects of heparinoid on moisturization of skin and promotion of peripheral blood flow were studied. To evaluate its usefulness, a histological study of a heparinoid cream was performed using the vehicle and a vitamin E cream as controls. Application of the heparinoid cream on guinea pig skin resulted in percutaneous absorption of heparinoid, causing tight stratification of stratum corneum and dilation of blood vessels. Continued topical application of the cream on normal human skin, for one month, showed an increase in skin moisture retention and suppression of thick aggregates in stratum corneum. Furthermore, an *in vitro* adhesion test, using a cohesograph, indicated higher adhesion for heparinoid than other mucopolysaccharides. The results suggest that heparinoid is an effective moisturizer for human skin by; 1) making the skin more moist, 2) reducing thick aggregates, and with promoting peripheral blood circulation.

Key words: heparinoid, mucopolysaccharide, stratum corneum, thick aggregates, adhesion.