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〈教育セミナー〉

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剤形の違いによる有効成分の皮膚透過性および皮膚中濃度 —用量設定法ガイドラインの検討結果から—

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Skin Permeation and Concentration of Active Ingredients with Different Types of Formulation:
Utilization of the Result of "Dose Setting Method Guideline for Human Long-Duration Trials"

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Abstract

The skin concentration of topically applied cosmetic active ingredients is very important for evaluating cosmetics. However, the direct measurement of drug concentration in the membrane has several problems. Generally, controlling the removal of the drug formulation from the membrane surface is very difficult. Hard cleaning of the membrane surface decreases the membrane concentration, whereas inadequate cleaning may leave the drug formulation on the membrane. In the present paper, relationship between skin permeation and skin concentration is shown and research results with verification result for utilization to dose setting method guideline for human long-duration trials (Safety) is also introduced. I hope this paper will be helpful to ensure the efficacy and safety of cosmetic products.

Key words: skin permeation, skin concentration, infinite dose, cosmetic active ingredient, dose setting method.