

Dermatopharmacokinetics and pharmacodynamics of topical drug products

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Assessment of bioequivalence of topical dermatological formulations is a challenge. There is no generally accepted method to evaluate the bioavailability and bioequivalence of topical drug products. Dermatopharmacokinetics describe the pharmacokinetics of topically applied drugs in the stratum corneum with pharmacodynamic effects. The smart techniques (tape stripping and microdialysis) use in dermatopharmacokinetic methodology assesses the cutaneous drug concentration at the site of application. Various studies have shown dermatopharmacokinetics to be a reliable and reproducible method for determining bioequivalence, and have indicated that it is applicable for all topical dermatological drug products.

Biography

Dr. Malay K Das has completed his Ph. D. degree from Jadavpur University, Kolkata, India. He is currently serving as Assistant Professor (Pharmaceutics) in the Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh, India. He has supervised 16 M. Pharm. thesis and 5 Ph. D. theses yet to be submitted under his guidance. He has published more than 20 research papers in various national and international journals.