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## Skin microdialysis as a tool to study dermal pharmacokinetics of drugs

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The treatment of skin diseases using therapeutic agents requires the drug to distribute well in the skin. The dermatokinetics of drugs is the main determinant of efficacy of treatment of skin disorders. The methods of drug sampling from the dermal tissue such as biopsy sampling or blister fluid aspiration is invasive and associated with limitations and complication. Dermal microdialysis is a minimally invasive method of sampling drugs from the dermal extracellular fluid. Dermal microdialysis has been utilized in investigating bioequivalence and bioavailability studies of topical formulations. The applications, advances, limitations and future directions of dermal microdialysis technology will be discussed in this talk.

### Biography

S. Narasimha Murthy completed his Masters and Ph.D in Pharmaceutical sciences from Bangalore University, India. He did his postdoctoral research at Roswell Park Cancer Institute, Buffalo, NY in Biophysics department. Dr. Murthy has been working as a faculty at the University of Mississippi since 2006 (<http://home.olemiss.edu/~murthy/>). He has published over 75 research papers in peer reviewed pharmaceutical journals and presented over 100 papers. Dr. Murthy also has founded "Institute for Drug Delivery and Biomedical Research" ([www.idbresearch.org](http://www.idbresearch.org)) in Bangalore, India.

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