



REMOTE CDR RESEARCH SEMINAR SERIES

The Center for Dermal Research Welcomes
Dr. Sharareh Senemar, Long Island University, NY

“New developments in the assessment of cutaneous bioavailability and bioequivalence of topical dermatological products using dermal microdialysis”

June 6, 2022, at 5:30pm EST



Dr. Sharareh Senemar is a postdoctoral fellow investigating dermal pharmacokinetics in the department of Pharmaceutics at Long Island University, NY under supervision Dr. Grazia Stagni. She obtained her Pharm.D degree from Iran, Kerman University of Medical Science, and both a Master of Science in Industrial Pharmacy and Ph.D. in Pharmaceutics and Drug Design at Long Island University, NY. She is the Lead postdoc on an FDA grant titled "Elucidating Fundamental Principles of Dermal Pharmacokinetics via Microdialysis" to investigate cutaneous pharmacokinetics. In addition, she collaborated with FDA on a previous grant entitled "Benchmark of Dermis Microdialysis to assess

Bioequivalence of Dermatological Topical Products", to investigate bioavailability and bioequivalence of topical dermatological products utilizing dermal microdialysis through numerous preclinical studies. She has been awarded two AAPS Best Abstracts and nominated for AAPS Best Poster awards in 2019 and 2021. Sharareh is a member of LIU AAPS Student Chapter Board that received 1st place in 2019 AAPS Student Chapter Award. She serves as a member of the AAPS Topical Transdermal board and a member of the topical transdermal drug product at US Pharmacopeia. She is also a member of Rho Chi Society-Beta Theta Chapter. She has two published manuscripts in cutaneous pharmacokinetics of topical dermatological drug products, with many more on the way following poster presentations.

Abstract: In this presentation, the developments to further advance the utility of dermal microdialysis in dermal bioavailability/ bioequivalence assessments after topical drug product application will be discussed. In addition, the methods to reduce the intrinsic variability of dermal microdialysis are addressed. Finally, a novel technique termed "dermal infusion" due to its similarity to IV infusions, is presented and demonstrated how this approach can be used to assess dermal disposition parameters, such as dermal clearance, volume of distribution, and half-life, of topically applied active pharmaceutical ingredients.

Meeting Link:

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