



Journal of Hospital Pharmacy
An Official Publication of Bureau for Health & Education Status Upliftment
(Constitutionally Entitled As Health-Education, Bureau)

Nano-Emulgel: A Smarter Topical Lipidic Emulsion-Based Nanocarrier

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ABSTRACT

The Nanoemulgel drug delivery system is a formulation-related intervention aimed at improving lipophilic medication systemic distribution and therapeutic profile. Because of its greater penetration characteristics, enhanced pharmacokinetic profile, and therefore better therapeutic efficacy, nanoemulsion gel might be regarded a preferable alternative to traditional lipophilic drug formulations. At the same time, it can be directed more precisely to the site of action, avoiding first-pass metabolism and relieving the user of gastric/systemic incompatibilities. Nanoemulgel is made up of two distinct systems in which a drug-containing nanoemulsion is mixed with a gel basis. This formulation benefits from the combination of these two systems in a number of ways.

Keywords: Nanoemulgel, Nanoemulsion, Formulation

Access this Article Online	Quick Response Code: 
Website: http://www.journalofhospitalpharmacy.in	
Received on 10/08/2021	
Accepted on 24/08/2021 © HEB All rights reserved	

