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Ethosomes- A novel tool for transdermal drug delivery

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Transdermal delivery is one of the most successful innovative researches which delivers precise amount of drug through the skin for systemic action with the potential advantage of the avoidance of the first pass metabolism, exposure to the GI fluids and improved patient compliance. Ethosome delivery system was established to develop a patented, passive, non-invasive, transdermal drug delivery. They are the phospholipid based elastic nanovesicles containing a high content of ethanol (acting as a penetration enhancer). They are soft, malleable vesicles tailored for enhanced delivery of active agents. The physicochemical characteristic of ethosomes is to allow drug through the stratum corneum into the deeper layers of the skin than conventional liposomes. The vesicles allow controlling the release rate of the drug over an extended time, keeping the drug shielded from the immune responses. The various drugs which could be incorporated in the ethosomal vesicles are NSAIDS, anti-HIV agents, antibiotics to name a few and also insulin delivery in lowering blood glucose levels.

Biography

Rizwana Begum is pursuing Masters in Pharmacology from G. Pulla Reddy College of Pharmacy, affiliated to Osmania University Hyderabad.

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