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Transferosomes as an Efficient Carrier System for better Therapeutic response of Targeted Drug Delivery System

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ABSTRACT:

BACKGROUND: Targeted drug delivery systems (TDDS) mainly focuses to aim the medication to a specific organ site and hence reducing the amount of drug in remaining tissues therefore, improving its bioavailability and therapeutic index at the targeted site. This helps in minimizing the adverse effects and improves its efficacy. OBJECTIVE: Presently there are different carrier systems like liposomes, transferosomes, pharmacosomes, phytosomes, aquasomes, niosomes, solid lipid nanoparticles, microparticles, nanoparticles, etc. are being used for the purpose of site specific drug delivery and also to prevent drug candidate from metabolic degradation process. The major focus of this review work is on Transferosomes proves as an efficient carrier for target delivery of drugs. The drugs molecules get decomposed due to different metabolic processess and other physiological conditions of the body; this emerges the need for site specific systems for drug delivery to prevent the drug molecules. This site specific process is also known as smart drug delivery because these nanocarrier systems significantly changes their physiochemical properties in response to internal environment of the body and release the drug at its targeted site at a specific rate according to severity of the disease. CONCLUSION: The applications of these nano systems like fabrication, encapsulation, response to various stimuli are vital for site specific delivery of drugs. Nanotechnological application in drug delivery enhances the process of drug delivery. There are various kinds of nano-size particulate systems that are already approved for their clinical use although these are now in their development stages. This will be a major focus for future drug targeting with various newer molecules.

Keywords: Targeted drug delivery system Transferosomes Nanotechnology Cancer Carrier

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