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Vesicular Drug Delivery System: A Review

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Abstract : Designing of the drug in the vesicular system has brought a new life to the preexisting drugs and thus has improved their therapeutic efficacies by controlling and sustaining the action. The objective of the study is to evaluate the potential of novel vesicular drug delivery systems for drug targeting. Novel drug delivery attempts to either sustain drug action at a predetermined rate, or by maintaining a relatively constant, effective drug level in the body with concomitant minimization of undesirable side effects. A novel drug delivery system is that delivers drug at predetermined rate decided as per the requirement, pharmacological aspects, drug profile, physiological conditions of the body etc. In current conditions, not a single novel drug delivery system behaves ideally those high goals with fewer side effects. The application of vesicular system in drug delivery has changed the definition of diagnosis and treatment in different aspects of biomedical field. A Vesicular Drug Delivery System (VDDS) is the system in which encapsulation of active moieties in vesicular structure, which bridges gap between ideal and available of novel drug delivery system. A number of vesicular drug delivery systems like liposomes, niosomes, transferosomes, pharmacosomes, colloidosomes, herbosomes, sphinosomes, etc. have been developed. This review has been focusing the discussion of about various lipoidal and nonlipoidal vesicular drug targeting.

Keywords : Vesicular Drug Delivery System, Novel drug delivery, liposomes, niosomes.

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