



Virosomes: A Drug Carrier System

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Abstract:

Virosomes are novel carrier or drug delivery system for drug delivery technology which is being used for vaccine and cellular delivery of active macromolecule. Virosomes are biomimetic nanoparticles drug delivery system, where active macromolecule packed into viral coat which are made by lipoidal membrane. This unique and specialized system is helpful in presentation of immune system by using specific antigen. It is used to carry macromolecule like nucleic acid, peptides, antitoxins, steroids etc. which are mainly used to treat cancer, infectious diseases. The administration of virosomes is done by various routes such as intramuscular (IM), intravenous (IV), intra-arterial, subcutaneous (SC), oral, and inhalation delivery route. For long term use, the implantable device of virosomes also used. Virosomes are biodegradable, biocompatible, and effective in providing drug at targeted site. This review paper is focused on structure and components of virosomes, their type and formulation, mechanism of action, evaluation parameters and application of virosomes along with the available marketed formulation etc.

Keywords: Structure, fusion activity, mechanism of action, preparation etc.

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