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SUSTAINED RELEASE: EMERGING DRUG DELIVERY SYSTEM

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ABSTRACT

To achieve and maintain the concentration of an administered drug within therapeutically effective range, it is often necessary to take drug dosage several times and these results in a fluctuating drug levels in plasma. Sustained release dosage forms are designed to release a drug at a predetermined rate in order to maintain a constant drug concentration for a specific period of time with minimum side effects. Sustained Release is also providing promising way to decrease the side effect of drug by preventing the fluctuation of the therapeutic concentration of the drug in the body. During the last two decades there has been remarkable increase in interest in sustained release drug delivery system. This has been due to several advantages of sustained release drug delivery over conventional dosage forms like improved patient compliance due to less frequent drug administration, reduction of fluctuation in steady-state drug levels, maximum utilization of the drug, increased safety margin of potent drug, reduction in healthcare costs through improved therapy, shorter treatment period and less frequency of dosing.

Keywords: SRDDS, Diffusion Controlled, Extended Release, Rotating Basket