



PENN KINETIC SYSTEM: A REVIEW

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ABSTRACT

Oral Sustained release (SR) products provide an advantage over conventional dosage forms by optimizing biopharmaceutical, pharmacokinetic and pharmacodynamic properties of drugs in such a way that it reduces dosing frequency to an extent that once daily dose is sufficient for therapeutic management through uniform plasma concentration providing maximum utility of drug with reduction in local and systemic side effects and cure or control condition in shortest possible time by smallest quantity of drug to assure greater patient compliance.

Developing oral sustained release suspension with constant release rate has always been a challenge to the pharmaceutical technologist. Drug release through matrix system is determined by water penetration, polymer swelling, drug dissolution, drug diffusion and matrix erosion. Highly water soluble drugs have been formulated as sustained releases through suspension. This article contains the basic information regarding design, mechanism of sustained-release suspension by Penn kinetic system.

KEYWORDS: Compliance, matrix erosion, pharmacokinetic, penetration, sustained releases.

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