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A Review on Pulsatile Drug Delivery System

Shraddha M. Sarode[1] and Bipin R. Gandhi[2]
Student, Samarth College of Pharmacy, Belhe, Pune, Maharashtra, India[1]
Assistant Professor, Samarth College of Pharmacy, Belhe, Pune, Maharashtra, India[2]

Abstract: *In essence, pulsatile drug delivery systems (PDDS) are time-controlled drug delivery systems in which the system regulates the lag time independently of external parameters such as pH, enzymes, gastro-intestinal motility, etc. Traditionally, medications either release immediately or over time. Nevertheless, interest in pulsatile drug release devices has grown recently. These systems were created to work with the body's natural circadian cycle. In Latin literature, Circa and Dian are the words for day and night, respectively. For many medications or treatments, pulsatile drug release—in which the drug is released quickly after a clearly defined lag—could be useful. Asthma, peptic ulcer, cardiovascular disease, arthritis, attention deficit disorder in children, and hypercholesterolemia are among the illnesses where PDDS appears promising. This medication distribution system has been pre-programmed.*

Keywords: PDDS-Pulsatile drug delivery systems; CR-controlled release; SR-sustained release.

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