

Biodegradable model for patch in capsule for treatment of peptic ulcers

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ABSTRACT: Oral dosage is most prominent route for both conventional and novel drug delivery systems. Different kinds of formulations were targeted via oral route for different types of diseases. Thus improve the pharmacokinetic parameters of medications; some of the novel formulations with sustained release and control release were formulated. In the field of pharmaceutical industries / markets, the use of Nano-carriers has shown a much greater effect on behalf of pharmacokinetic parameters. But there is still a big challenge to show gastric residence time for formulations that having short half-life. So many approaches have been adopted by researchers as well as by pharmaceutical industries such as

Mucoadhesive, floating tablets, swelling formulations to improve the gastric residence time for such products. Due to certain disadvantages of such gastro- retentive drug delivery formulations, Patch in capsule drug delivery is the best option to improve the pharmacokinetic parameters as well as the time of gastric residence of such formulations. Patch in capsule is a novel technique designed to increase the duration of gastric residence of drugs and enhance the pharmacokinetic properties of different drugs. Patch in capsule is a formulation of the control release following kinetics in zero order.

Keywords: Patch, gastro-intestine, pharmacokinetics, Half life

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