

Review on Gastroretentive Drug Delivery System

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Abstract: *In the current days, gastro retentive drug delivery system receives great attention because they increase the performance of control release dosage forms, which can take orally. The main purpose of gastro retentive drug delivery system is to improve bioavailability of drug. Gastric Retention along with oral control drug delivery is advantageous to many drugs having low absorption window hence poor bioavailability. The concept of novel drug delivery system arose to overcome certain aspects related to physicochemical properties of drug molecules and the related formulation. Gastro retentive drug delivery system is one of such novel approaches to prolong gastric resident time, there by targeting site specific drug release in the stomach for local or systemic effect. Gastro retentive drug delivery systems are promising systems that float immediately upon contact with gastric fluids which may increases the bio availability of encapsulated drug along with absorption in the intestine. The present review addresses briefly about the classification, formulation consideration for GRDDS, factors controlling gastric retention, merits, demerits and applications of gastro retentive drug delivery system.*

Keywords: Gastroretentive, Flotation, Mucoadhesion, Drug delivery system, Current approaches in GRDDS