

An Overview of Floating Drug Delivery System

Mr. Prachet Bagewadikar¹, Dr. B. D. Tiwari², Utkarsha Mhetre³, Meghana Medpalli⁴,
Diksha Kulkarni⁵, Aishwarya Kulkarni⁶

Assistant Professor¹, Vice Principal², Students³⁴⁵⁶

Ameपुरva Forum's, Nirant Institute of Pharmacy, Boramani, Solapur, Maharashtra, India

Abstract: *The goal of Floating Drug Delivery Systems (FDDS) is to arrange the current emphasis on the basic flotation mechanism to attain stomach retention time. The most current advancements in FDDS are thoroughly discussed, including the formulation and physiological factors influencing stomach retention, methods for designing floating systems, and the characteristics of their classification and formulation. Since dosage forms stay in the stomach longer than conventional dosage forms, the capacity to extend and control the gastric emptying time is a major asset. Gastric emptying of dosage forms is a highly variable process. Drugs with gastroretentive systems have a much longer residence time in the stomach area, improving bioavailability, decreasing drug waste, and increasing solubility for medications that are less soluble in high pH environments. These benefits are achieved over a period of many hours. This review provides a brief overview of floating medication delivery devices.*

Keywords: Floating Drug Delivery System, Gastroretentive Drug Delivery System, It's Classification, Application