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## DESIGN AND CHARACTERIZATION OF FLOATING TABLET OF ONDANSETRON HYDROCHLORIDE FOR GASTRIC RETENTION

S. Yadav, S. Padhi and P. Kumar

Department of Pharmaceutical Technology, Noida Institute of Engineering and Technology,  
Plot No.19, Knowledge Park-II, Greater Noida, Uttar Pradesh-201306, India

### ABSTRACT

Floating drug delivery system is the gastro retentive systems can remain in the stomach for many hours and can significantly prolong the gastric residence time of drugs. The aim of the work is to design floating tablets of Ondansetron for gastric retention by using  $3^2$  factorial designs. Chitosan and Sodium Bicarbonate is used as independent variables were as time taken to release 50% and floating lag time is dependent variables. Floating tablets of Ondansetron were prepared by direct compression method using polymers and sodium bicarbonate. Floating tablets were evaluated for floating time, floating lag time, drug content and *in vitro* dissolution profile. The lag time is between 25-10 sec and floating time of the formulations stopped on 12 hrs, Drug release percentage is upto 90-94 % and kinetic studies were carried out and best batch is F9, The best fit model is Korsmeyer Peppas Model. From the study it is proof that the sustain release by floating tablets of Ondansetron can be develop.

**Keywords:** Floating tablets, Sustained release, Gastric retention time, Ondansetron, Factorial design.

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**Correspondence Author:**

S. Yadav

Department of Pharmaceutical Technology, Noida Institute of Engineering and Technology, Plot No.19, Knowledge Park-II, Greater Noida, Uttar Pradesh-201306, India

Email: [swati.yadav809@gmail.com](mailto:swati.yadav809@gmail.com)

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