



Formulation Evaluation of Gastro Retentive Floating Drug Delivery System.: Gastro Retentive Floating Drug Delivery System of Clopidogrel Bisulphate (Paperback)

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Createspace Independent Publishing Platform, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Clopidogrel Bisulphate is an Antiplatelet (Inhibitor of P2Y12 ADP platelet receptors) used in the treatment of Heart Attack, Ischemic Stroke, Acute Coronary Syndrome and Platelet Aggregation Inhibition. It is incompletely absorbed from the gastrointestinal tract and has an oral bioavailability of only 50 , while remaining drug is excreted unchanged in faeces. This is because of poor absorption in lower gastrointestinal tract. It undergoes little or no hepatic first pass metabolism and its elimination half-life is 6 to 7 hours. Therefore, it is selected as a suitable drug for the design of a gastro-retentive floating drug delivery system (GFDDS) with a view to improve its oral bioavailability. In the present study, an attempt was made to design and optimize GFDDS of Clopidogrel Bisulphate using hydroxyl propyl methyl cellulose of different viscosity grades (K100LV and K4M) as the polymers and sodium bicarbonate as a gas generating agent, to reduce floating lag time. The tablets were prepared by direct compression method. Six batches of preliminary trial formulations were designed and the designed batches of formulations were evaluated for hardness, friability, weight variation, swelling index,...



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