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In Association with
INDIAN PHARMACEUTICAL ASSOCIATION, TELANGANA STATE BRANCH
One Day Seminar on
"INNOVATIONS IN PHARMACEUTICAL RESEARCH - 2017"
AND ORAL PRESENTATIONS
19th August 2017

ABSTRACT AND ORAL PRESENTATION DETAILS

ABSTRACT DETAILS: Abstracts should be sent to **"seminars@gprcp.ac.in"**

Title of Paper (in capital)	Font 14, Bold, Times New Roman
Name of the Author	Font 12, Times New Roman
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Text	Font12, Times new roman, *About 250 words

ORAL PRESENTATION DETAILS:

Micro Soft- PowerPoint Presentation (5 + 1 min.)

Presentation should cover – Objective
Experimental
Results and Discussion
Conclusion

MODEL ABSTRACT

PHARMACEUTICS

ABSTRACT

FORMULATION AND EVALUATION OF SINTERED FLOATING TABLETS OF CEFPODOXIME PROXETIL

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Abstract

In present investigation, an attempt was made to develop gastro retentive tablets of Cefpodoxime Proxetil using locust bean gum as release retarded material. Cefpodoxime Proxetil (CP) is an orally administered, extended spectrum, semi-synthetic antibiotic of cephalosporin class. CP has a short elimination half-life and also possesses high solubility, chemical, enzymatic stability and absorption profiles in acidic pH which makes CP suitable candidate for formulating it as gastro retentive dosage form for improved bioavailability. Camphor was used to get desired floating properties. The prepared Cefpodoxime Proxetil floating tablets were subjected to sintering technique, where the cross linkage within the polymeric structure was increased by exposing tablets to acetone vapors. Advantage with sintering is that prolong drug release can be attained at low hardness and low concentrations of polymers. The tablets so designed were evaluated and found to have acceptable physicochemical properties. Formulation S2 containing locust bean gum: drug (0.30 : 1.0) and camphor (10% w/w), which was exposed to acetone vapors for a period of 6 hrs has shown optimum floating properties and better dissolution profile i.e. 97.3% in 12 hrs. Hence, S2 formulation was considered as optimized formulation. The *in vitro* release data of optimized formulation was treated with mathematical equations and was concluded that drug release followed zero order kinetics (0.9599) with anomalous transport mechanism (0.5331). Based on the results it can be concluded that sintered floating tablets of Cefpodoxime containing locust bean provides a better option for controlled release action and improved bioavailability.

Key words: Cefpodoxime proxetil, Retardant material, Gastro retentive floating tablets and Sintering technique.