



## G. PULLA REDDY COLLEGE OF PHARMACY

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One Day Seminar on

“INNOVATIONS IN PHARMACEUTICAL RESEARCH - 2024” AND ORAL & POSTER PRESENTATIONS

**21<sup>st</sup> December 2024**

### ABSTRACT AND ORAL & POSTER PRESENTATION DETAILS

#### ABSTRACT DETAILS:

<b>Title of Paper (in capital )</b>	Font 14, Bold, Times New Roman
<b>Name of the Author/s</b>	Font 12, Times New Roman
<b>Address of the Author</b>	Font 12, Times New Roman E-mail of the Corresponding author/ Presenting author
<b>Text</b>	Font 12, Times new roman, *About 250 words

#### ORAL & POSTER PRESENTATION DETAILS:

##### ORAL PRESENTATIONS DETAILS

Microsoft- PowerPoint Presentation (5 + 1 min.)

**Note: Only Presenter will receive Certificate**

##### POSTER PRESENTATION DETAILS

The size of poster should be

**Width- 90 cm (36 Inches)**

**Height- 100 cm (40 Inches)**

**Note: Not more than 3 participants., Only registered participants will receive presentation Certificate**

#### ORAL/ POSTER PRESENTATION should cover:

- Introduction
- Objective
- Experimental
- Results and Discussion
- Conclusion
- References

## MODEL ABSTRACT

### SUBJECT NAME

### ABSTRACT

### TITLE

**Author Name<sup>1\*</sup>, Author Name and Author Name**

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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.