

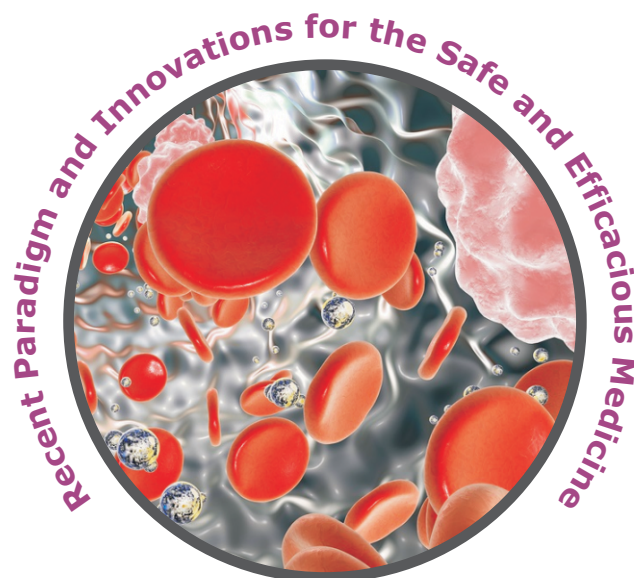


**SOCIETY OF PHARMACEUTICAL  
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**FORMULATION DEVELOPMENT AND EVALUATION OF MOUTH DISSOLVING FILM OF MUCOLYTIC DRUGS****Vaishnavi Belokar\*, Trilok Shahare, Ekta Kankariya, Nilesh Mahajhan, Ujwala Mahajan**

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**ABSTRACT**

Ambroxol (AMX) is a secretolytic agent used in the treatment of respiratory diseases associated with viscid or excessive mucus. Guainphenesin (GUA) is an expectorant, helps loosen congestion in your chest and throat. Levalbuterol (LAB) is a short-acting  $\beta_2$ -adrenergic receptor agonist used in the treatment of asthma and chronic obstructive pulmonary disease (COPD). The objective of mouth dissolving film (MDF) of mucolytic drug allowing faster drug dissolution in oral cavity bypassing the first pass metabolism and to promote pregastric absorption. All the drugs were taste masked and evaluated for the efficacy of taste masking. MDF of complexed mucolytic drug was prepared by solvent casting technique using combination of polymer pectin & HPMC K15M and a superdisintegrant sodium starch glycolate. Mouth dissolving film were evaluated for general appearance, film thickness, weight variation test, folding endurance test, surface pH test, drug content uniformity, *in vitro* disintegration, *in vitro* dissolution time. MDF prepared from the combination of HPMC K415 M and pectin was found to be stable and shows satisfactory results of all parameters. Investigations concluded that MDF formulation can be a potential novel dosage form for pediatric, geriatric and also for general population for the enhanced efficacy.

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**FORMULATION DEVELOPMENT & EVALUATION OF ORAL SUSTAINED RELEASE SUSPENSION CONTAINING ANTI- DIARRHEAL DRUG****Vaishnavi S. Shete\*, Tilottama Gatkine, Arti Darode, Nilesh Mahajan, Ujwala Mahajan**

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**ABSTRACT**

The research scheme aims at formulation development and evaluation of oral sustained release suspension containing Anti- diarrheal drugs combination of Racecadotril & Ofloxacin. The research was designed with objectives of- incorporation of fix dose combination of Anti-secretory and Anti-microbial type of Anti-diarrheal drug in the sustained release oral suspension, by also developing its taste masking property and reducing dose frequency. After preformulation studies for Racecadotril & Ofloxacin, formulation development were carried out with respect to taste masked immediate release complex of Racecadotril with Eudragit, controlled release complex of ofloxacin with Indion 254, oral controlled release suspension by maintaining the dose of Racecadotril & Ofloxacin and altering the concentration of suspending agent. Optimized formulations (F1,F2,F3) were subjected for evaluation including pH, viscosity, sedimentation rate, sedimentation volume, redispersability, drug content, *in vitro* drug release study, particle size, particle size distribution & zeta potential, and stability study. For the all above evaluations F3 formulation had shown the highly optimum results fitted with all specification of sustained release suspension & which exactly obeys the zero order kinetic of drug release. Finally, it was concluded that the antidiarrheal suspension which is able to provide immediate & sustained release effect with great palatability & stability.

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**FORMULATION DEVELOPMENT OF TOPICAL GEL LOADED WITH NANOSPONGES OF ANTI FUNGAL DRUG****Vaishnavi S. Vairagade\*, S.P. Dewani**

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**ABSTRACT**