

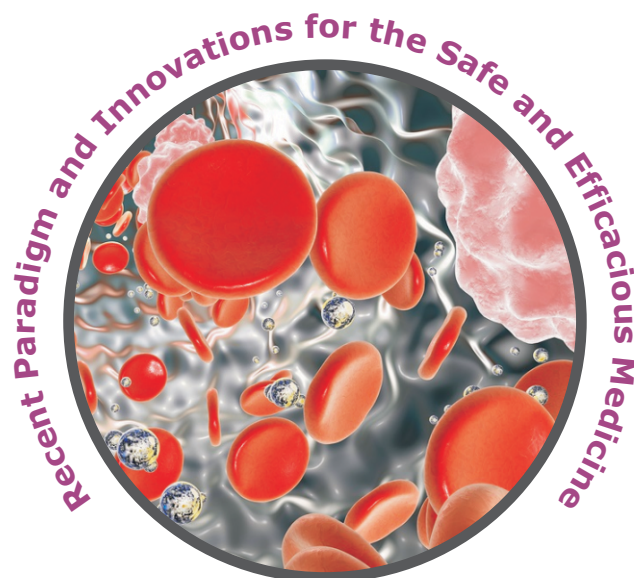


**SOCIETY OF PHARMACEUTICAL
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PC-18

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 β_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.

PC-19

PREDICTIVE MEDICINE: A CHALLENGE IN DRUG DELIVERY SYSTEM**Preeti R. Jadhav*, Vinod M. Thakre**

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ABSTRACT

Advanced drug delivery systems (DDS) present indubitable benefits for drug administration. Over the past three decades, new approaches have been suggested for the development of novel carriers for drug delivery. In this review, we describe general concepts and emerging research in this field based on multidisciplinary approaches aimed at creating personalized treatment for a broad range of highly prevalent diseases (e.g., cancer and diabetes). This review is composed of two parts. The first part provides an overview on currently available drug delivery technologies including a brief history on the development of these systems and some of the research strategies applied. The second part provides information about the most advanced drug delivery devices using stimuli responsive polymers. Their synthesis using controlled-living radical polymerization strategy is described. In a near future it is predictable the appearance of new effective tailor-made DDS, resulting from knowledge of different interdisciplinary sciences, in a perspective of creating personalized medical solutions.

PC-20

FORMULATION AND EVALUATION OF POORLY WATER-SOLUBLE DRUG USING HYDROTROPS**Sneha R. Chandewar, Vinod M. Thakare, Tejaswini K. Mankar, Chitra S. Paytode**

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ABSTRACT

Solubility of drug is measured to be one of the necessary parameter to accomplish its desired concentration in systemic circulation and better pharmacological response. As most of the drugs accessible are poorly aqueous soluble, solubility enhancement has become main challenge to the formulators in the product growth of many orally administered drugs. Beneficial response of drug as well as bioavailability can be limited due to poor aqueous solubility of drugs. Earlier, many techniques have been developed for enhancing solubility of drugs. Apart from those, hydrotrophy is one of the solubility