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**DEVELOPMENT AND VALIDATION OF RP-HPLC METHOD FOR
SIMULTANEOUS ESTIMATION OF TAMSULOSIN HCL AND
TOLTERODINE TARTRATE IN COMBINED PHARMACEUTICAL
DOSAGE FORMS**

Kiranmai M.^{1*}, Anusha K.², Rubina Kauser³ and Prathyusha J.⁴

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Article Received on
01 July 2020.
Revised on 23 July 2020.
Accepted on 12 August 2020.
DOI: 10.20959/wjpr20209-18442


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501510.

ABSTRACT

A simple and selective RP-HPLC method was developed for the simultaneous determination of Tamsulosin hydrochloride and Tolterodine tartrate tablet dosage forms. Chromatographic separation was achieved on an Inertsil ODS C18 column (4.6 mm × 250 mm, 5 µm) using mobile phase consisting of a mixture of phosphate buffer (KH₂PO₄) and Acetonitrile (CH₃CN) in the ratio 50:50 v/v, with detection of 214 nm. Retention time was estimated to be 2.81 min and 4.28 min for Tamsulosin Hydrochloride & Tolterodine tartrate respectively. Accuracy was found to be 100.46% and 99.6% for Tamsulosin HCL and Tolterodine tartrate respectively. The linearity was observed over a range of 0.25-0.75 µg/ml for Tamsulosin HCL and 2.5-7.5 µg/ml for Tolterodine tartrate. In precision relative standard deviation values for both was found to be less than 2.0%. The designed method was found to be simple, specific, accurate, linear and precise. It can be used for regular analysis for the simultaneous estimation of Tamsulosin hydrochloride and Tolterodine tartrate tablet dosage forms.

KEYWORDS: Tamsulosin HCL, Tolterodine tartrate, RP-HPLC, Method development, Validation.

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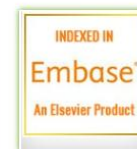

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GREEN NANOTECHNOLOGY AND NANOPARTICLES: AN ECO-FRIENDLY APPROACH

Hema Kumari and Kiranmai Mandava *

Department of Pharmaceutical Chemistry, St Pauls College of Pharmacy, RR (Dist.), Turkayamjal , Telangana, India.

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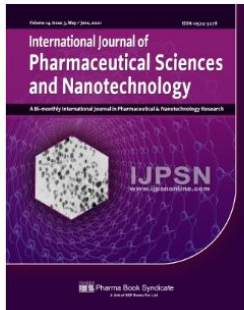
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A Review on Polyherbal Shampoo Powder

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Submitted: 25 April 2021
Accepted: 02 May 2021
Published: 30 May 2021

 
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Keywords: Hair, Powdered polyherbal shampoo, *Barbadensis miller*, Hair disorder, Ayurvedic ingredients, Physicochemical evaluation

ABSTRACT

The shampoo sector is probably the largest unit among the hair care products. Shampoos are one of the cosmetic products used daily as the hair is a special and cherished feature of human being which beautifies the look of every individual. Day by day dependency of people is raising on herbal formulations not only for a chronic ailment but also for several acute problems. The assurance therapy with minimal side effects has been proven with ayurvedic formulations. In the scenario of changing food habits, stress, and dependent environment conditions, several hairs and skin disorders are encountered. In case of hair disorders like dandruff, hair fall, dull hair, split ends, etc, a proper selection of ayurvedic ingredients with the required amount, the dosage form can be formulated to fight against hair problems. This polyherbal shampoo was formulated by using natural ingredients like Aloe vera (*Barbadensis miller*), Neem leaves (*Azadirachta indica*), Reetha fruit (*Sapindus mukorossi*), Shikakai (*Acacia concinna*), Amla fruit (*Embelica officinalis*), Hibiscus leaves (*Hibiscus rosa-sinensis*) with proven efficacy. The combination of such ingredients has made it possible to secure highly effective dry powder shampoo. The formulation at laboratory scale was evaluated for several organoleptic properties, general powder characteristics and physicochemical evaluation to ensure the safety and efficacy of the formulation.


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A REVIEW ON NOVEL DRUG DELIVERY SYSTEM - TRANSDERMAL DRUG DELIVERY SYSTEM AND ITS STATISTICS

Ayesha Sultana*, Vidya Birajdar, K. Venu Madhav, M. Kiranmai, Sravanthi
St. Pauls College of Pharmacy, Turkayamjal, Hyderabad, Telangana, India.

*Corresponding Author E-mail: vidyabirajdar0608@gmail.com

ARTICLE INFO	ABSTRACT
<p>Key words: Application, Evaluation, Global market, Transdermal patches, Transdermal drug delivery system.</p> <p>Access this article online Website: https://www.jgtps.com/ Quick Response Code:</p> 	<p>The transdermal route has numerous advantages over the drug delivery routes. TDDS was presented to overcome the difficulties of drug delivery especially oral route. Transdermal drugs are self-contained, discrete dosage form. Advantage of transdermal delivery route over other types of delivery system such as oral, topical, intravenous etc., is that it provides controlled release of the medication into the patches. This review article covers brief outline of advantages, disadvantages, skin pathways for transdermal drug delivery system, types of transdermal patches, components of transdermal patches, preparation and evaluation of transdermal patches and its applications, future of transdermal drug delivery system are also described. The global market size for the Transdermal patch was estimated at \$22 billion in 2010 and the market expanded to \$32 billion by 2015. From 2017 to 2022 is expected to increase by 4.2%.</p>

1. INTRODUCTION

Oral route is the most popular route of drug delivery system but it has some disadvantages including first pass metabolism, drug degradation etc. in gastrointestinal tract due to enzymes, pH etc. To overcome these problems, a novel drug delivery system was developed by Chien in 1992, Banker in 1990, Guy in 1996. It was transdermal patches or transdermal delivery system.^[1] Transdermal drug delivery is defined as self contained, discrete dosage forms which, when applied to the intact skin, deliver the drug, through the skin at controlled rate to the systemic circulation.^[2] They are available in different sizes and having more than one ingredient. Once they apply on unbroken skin they deliver active ingredients into systemic circulation passing via skin barriers. A transdermal patch

Containing high dose of drug inside which is retained on the skin for prolonged period of time, which gets into blood flow via diffusion process. Drug can penetrate through skin via three pathways-

A) Through hair follicles. b) Through sebaceous glands. c) Through sweat duct.

Transdermal drug delivery systems are used in various skin disorders, also in the management of angina pectoris, pains, smoking cessation and neurological disorders such as Parkinson's disease.^[3,4]

Advantages:

- Avoids vagaries, associated with gastro-intestinal absorption due to pH, enzymatic activity and rug food interaction.
- Avoid first pass effect.

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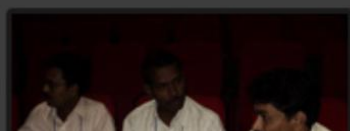
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A REVIEW ON POTASSIUM NITRATE, CHLORHEXIDINE GLUONATE AND HYDROGEN PEROXIDE TOOTH PASTE FORMULATION TO TREAT SENSITIVITY, BLEEDING GUMS & WHITENING OF TEETH


Ayesha Sultana*, Rishav Joysuwal, A. Nikhita, R. Rajeshwari, Asfa Fathima, Avinash Kadam

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ARTICLE INFO

Key Words
Aesthetics, Bleeding gums, Chlorhexidine gluconate, Hydrogen peroxide, Dentifrice, Potassium nitrate, Sensitivity, Whitening

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ABSTRACT
Toothpaste is the paste or gel dentifrice used with a tooth-brush to clean and maintain aesthetics and health of teeth. It is used to maintain or promote oral hygiene, since last ten years there has been a booming demand for aesthetic dentistry, consequently the bleaching and whitening products have made effective augmenting cosmetic so a routinely used product and its efficiency in whitening play a major role in aesthetics. Toothpastes are complex mixtures of abrasives, surfactants, anti-carrier agents such as fluorides, tartar control ingredients, pH buffers, humectants to prevent drying out and increase the pleasant feeling in the mouth, binders to provide consistency and shape. Tooth sensitivity is a common problem that affects many people commonly, it involves experiencing pain or discomfort to teeth from hot drinks, cold drinks or ice creams, and also from sweets. Bleeding gums is a sign that plaque has buildup where the teeth meet the gums, a condition that can lead to gingivitis and periodontitis. Potassium nitrate in toothpaste works by calming the nerves in the teeth. They desensitize nerves in tooth pulp. Formulations containing 5% potassium nitrate (KNO₃) is clinically proven to reduce dentin hypersensitivity. Potassium ions travel into exposed dentin tubules from the tooth surface to reach internal nerves.

INTRODUCTION
Toothpaste has been used since the ancient past and one of the main irreplaceable components of oral health care. The design of toothpaste formulation began in China and India, during 300 to 500 BC period. Squashed bone, pulverized egg and shells were utilized as abrasive as a part of tooth cleaning. Modern toothpaste formulation was developed in the 19th century. Later on chalk and soap were incorporated into those formulations. After 1945 several formulation advancements of different detergent had begun. Sodium lauryl sulphate has been used as emulsifying agent. In recent years the focus has shifted towards the use of active ingredients during formulation development to prevent and/or treat oral illness. The objective behind the use of toothpaste is its ability to deliver preventive and therapeutically active agents such as fluoride, metal salts and pyrophosphates. Active pharmaceutical ingredients, abrasives, humectants, detergents, binders, sweeteners, preservatives, antioxidants and flavors are the most commonly used ingredients of toothpaste. There are numerous materials and their combinations used in the formulation of toothpaste today.

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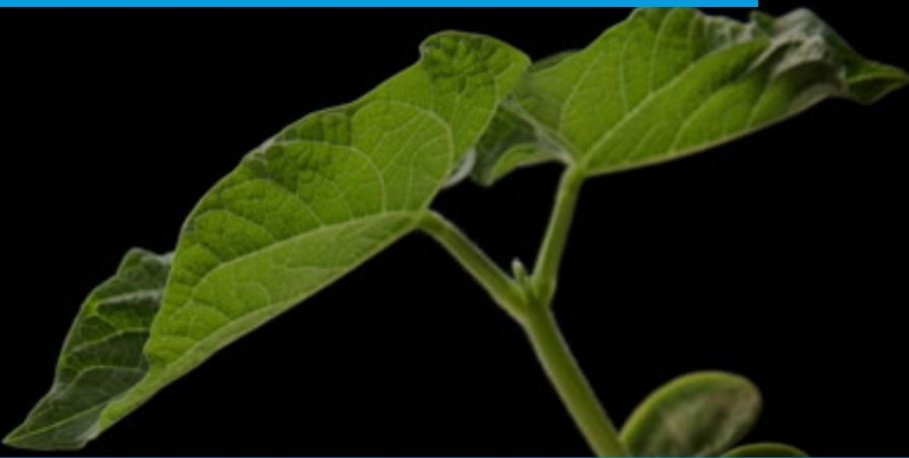
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DEVELOPMENT AND VALIDATION OF UV-SPECTROSCOPIC METHOD FOR THE SIMULTANEOUS ESTIMATION OF CETIRIZINE AND CHLORPHENIRAMINE IN TABLET DOSAGE FORM

Hafsa Siddiqua*, D. Sowmya, D. Keerthi, Atif Zama, Yousuf Bin Ahmed and Mustafa Ayad Mohammed

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Article Received on 26 April 2021,
Revised on 17 May 2021,
Accepted on 07 June 2021
DOI: 10.20959/wjpps20217-19281

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Paul's College of Pharmacy.

ABSTRACT
The present research work is focused towards development and validation of a simple, sensitive, rapid, accurate, precise and economical UV electro photometric method for the estimation of cetirizine and chlorpheniramine in tablet dosage form. This experiment is done based on the measurement of absorption maxima of cetirizine and chlorpheniramine at 230 nm and 262 nm respectively in 0.1N NaOH. The linearity range of cetirizine and chlorpheniramine was found to be 5-30microgm/ml and 10-60micro gm/ml respectively. The proposed method was statistically validated for its accuracy, precision and specificity.

KEYWORDS: Cetirizine, Chlorpheniramine, 0.1N NaOH, UV spectroscopy.

INTRODUCTION
Cetirizine is the second generation H1 receptor antagonist used in the symptomatic treatment of various immediate hypersensitivity reactions and allergic diseases. It is administered orally for treatment of hypersensitivity conditions. Cetirizine is the major metabolite of hydroxyzine which can be considered as a prodrug for cetirizine.

Cetirizine possesses greater affinity towards H1 Receptors and blocks them by inhibiting the activity of histamine. It also inhibits the release of cytotoxic mediators like leukotrienes from eosinophils and platelets.

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DEVELOPMENT AND VALIDATION OF UV-SPECTROSCOPIC METHOD FOR THE SIMULTANEOUS ESTIMATION OF CETRIZINE AND CHLORPHENIRAMINE IN TABLET DOSAGE FORM

Hafsa Siddiqua*, D. Sowmya, D. Keerthi, Atif Zama, Yousuf Bin Ahmed and Mustafa Ayad Mohammed



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A Review on Ixora Coccinea Plant

P.Roja*, M.Nandini, B.Deepthi, Kranthiguptha, Masaramraju
St.paul's school of pharmacy, Turkayamjal, Rungureddy district, Telangana, 501510

Date Of Submission: 01-06-2021 Date Of Acceptance: 14-06-2021

ABSTRACT: Ixora Coccinea is additionally referred to as Jungle herb, flame of the woods or Jungle flame. It belongs to the family rubiaceae; it's a typical shrub native to southern Asian nation, Asian nation and srilanka. Relying upon the medical condition the flowers, leaves, roots and also the stem area unit wants to treat varied ailments within the Indian ancient system of drugs, the written material, and additionally in varied people medicines. The fruits once totally ripe area unit wants to treat varied ailments within the Indian ancient system of drugs. The fruits once totally ripe area unit used as dietary sources. Pharmacological studies of those plant shows that it posses inhibitor, medicament, gastro protecting, hepatoprotective, antidiarrhoeal, anti-nociceptive, antimutagenic and chemo preventive effects. This review studies concerning the cultivation, ancient and pharmacologic effects of Ixora Coccinea.
KEYWORDS: Ixora Coccinea, flame of woods, Jungle herb, Ayurveda, ancient system of drugs, pharmacologic studies.

I. INTRODUCTION
 Ixora Coccinea is additionally referred to





Fig: 1-IXORA COCCINEA PLANT

SCIENTIFIC CLASSIFICATION
Kingdom : Plantae

DOI: 10.35629/7781-0603729734 | Impact Factor value 7.429 | ISO 9001: 2008 Certified Journal Page 729


as Jungle herb, flame of the woods or Jungle flame. It belongs to the family rubiaceae; it's a typical shrub native to southern Asian nation, Asian nation and srilanka. The genus name Ixora is meant to be derived from the Indo-Aryan word "ikvana" when a Malaysian spiritual being, or probably from the name "isvara" the opposite name of lord Shiva to whom the flowers area unit offered throughout worship, whereas the species name "coccinea" suggests that scarlet(reference:Manjeshwar shrinath Baliga and Poruthakkann John kurian)

Ixora coccinea is a dense, multi-branched evergreen shrub, usually 4-6 ft (1.2-1.8 m) tall, however capable of reaching up to 12 ft (3.7 m) high. It's a rounded kind, with a selection which will exceed its height. The glossy, leathery, rectangular leaves are concerning 4 in (10 cm) long, with entire margins, and area unit carried in opposite pairs or whorled on the stems. Tiny annular, scarlet flowers in dense rounded clusters 2-5 in (5.1-12.7 cm) across area unit created most years long.



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Pharmacoeconomics: From Health - Related Quality Of Life Point Of View

Author Name : Priscilla Nikhitha T, Akshitha Reddy G, Dr. Asha Jyothi V

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ABSTRACT

Pharmacoeconomics is the field of study that evaluates the behavior of individuals, firms and markets in health care and that usually focuses on the cost (inputs) and consequences (outcomes) of health care interventions, such as the use of drugs, devices, procedures, services and programs. Pharmacoeconomics is the branch of economics that uses cost-benefit, cost-effectiveness, cost-minimization, cost-of-illness and cost-utility analyses to compare pharmaceutical products and

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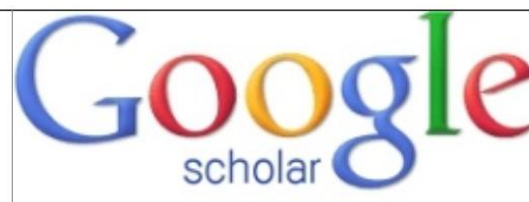
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Pharmacoeconomics: From Health - Related Quality Of Life Point Of View

Priscilla Nikhitha T¹, Akshitha Reddy G², Dr. Asha Jyothi V³

^{1,2}Pharm D, St. Pauls College of Pharmacy, Hyderabad
³HOD of Pharmacology, St. Pauls College of Pharmacy, Hyderabad

ABSTRACT

Pharmacoeconomics is the field of study that evaluates the behavior of individuals, firms and markets in health care and that usually focuses on the cost (inputs) and consequences (outcomes) of health care interventions, such as the use of drugs, devices, procedures, services and programs. Pharmacoeconomics is the branch of economics that uses cost-benefit, cost-effectiveness, cost-minimization, cost-of-illness and cost-utility analyses to compare pharmaceutical products and treatment strategies. Health outcomes research and patient-reported outcomes in particular; aim at understanding patient value in terms of impact of disease and its treatment on physical functioning and psychosocial well-being, known also as "health-related quality of life" (HRQL). The major challenging area of interest for both pharmacoeconomics and research is the role of Quality Adjusted Life Years (QALYs) in economic evaluation. The high price of medicines and increasing expenditure on pharmaceuticals is a serious concern for governments in low-income countries where already over half of the population lacks regular access to essential medicines. India must develop the platform for pharmacoeconomics with a validating methodology and appropriate training, for the insurance companies to give better facility at minimum cost. The role of clinical pharmacist including Pharm D graduates are expected to be more beneficial than conventional pharmacists, as they will apply the principles of economics in community and hospital pharmacy.

Key Words: Pharmacoeconomics, Cost-minimization, Health Related Quality of Life, Quality Adjusted Life Years.

INTRODUCTION

Pharmacoeconomics can be defined as the measurement of both the cost and consequences of therapeutic decision making, it is the process of identifying, measuring, comparing the cost, risk and benefits of programs, services or therapies and determining which alternative produces the best health outcome for the resource invested. Pharmacist can be used to improve the efficiency of his profession¹. In the present scenario of evidence-based health care, there is an increased interest in economic efficiency of health care due to the limitations on relevant resources. One of the major targets of cost savings on health care is spending on drugs. Other than decision makers, expenditure on drugs is equally a concern for patients, physicians, insurance companies and hospital administrators. This is the major reason that led to the branch of sciences called "Pharmacoeconomics"².

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    PE[PHARMACOECONOMICS] --> E[Economics]
    PE --> H[Humanistic]
    E --> CB[Cost benefit]
    E --> CE[Cost effectiveness]
    E --> CM[Cost minimization]
    E --> CU[Cost utility]
    H --> QL[Quality of life]
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Figure 1: Components Of Pharmacoeconomics

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PHARMACOECONOMICS - A REVIEW
Malvey Anusha Shree and V. Asha Jyothi*

St. Paul's College of Pharmacy, Turkayamjal, Hyderabad Telangana.

Article Received on 28 May 2021,
Revised on 18 June 2021,
Accepted on 08 July 2021
DOI: 10.26909/wjpps20218.19544

***Corresponding Author**
Dr. V. Asha Jyothi
St. Paul's College of
Pharmacy, Turkayamjal,
Hyderabad Telangana.

ABSTRACT
Pharmacoeconomics is the branch of economics that applies the cost-benefit, cost-effectiveness, cost-minimization and cost-utility analyses. Comparing the economics of different pharmaceutical products or a drug therapy to the non-drug therapy or treatment. Pharmacoeconomics is defined as the description and analysis of the costs of drug therapy to the health care system and society. Pharmacoeconomic identifies, measures and compare the resources cost and clinical, economic and humanistic consequences. The research methods include cost minimization, cost-effectiveness, cost benefit, cost of illness, cost utility, cost consequences and decision analysis. It focuses on cost and benefits of drug therapy. The review article emphasize on the pharmacoeconomic needs, methods, aim and challenges.

KEYWORDS: Pharmacoeconomics, cost effectiveness, cost benefit, cost minimization, cost utility.

INTRODUCTION
Pharmacoeconomics is defined as description and analysis of costs of drug therapy to health care system and society.^[1] Pharmacoeconomic is the branch of economics which particularly depend upon the costs and benefit of drug therapy.^[1] The pharmacoeconomics is the new words, but the economic interest is upon the treatment and drug of health problems.^[1] It applies and adopts the principle and methods of the economic health in the field of pharmaceutical policy.^[7] The importance of pharmacoeconomic is to give information to health care decision worker or makers which depend on viewpoint of analysis to conduct. The research methods connected to cost-minimization, cost effectiveness, cost-benefit, cost-of illness, cost utility, cost consequences and decision analysis are included within the frame work.^[7] Pharmacoeconomics promotes to continue development and study of health economics, quality

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
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HUMAN

P Naga Haritha*¹, Pabba Supraja², Shaista Samreen², Hrudayanjali², Munawar Qureshi², P. sandya², T. swetha²

¹ Assistant Professor, Dept. of Pharmacognosy, ²


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MICROBALLOONS – A NOVEL FLOATING DRUG DELIVERY SYSTEM

Rithu Kadagala^{*1}, Hema Kumari² and Naga Haritha Pamujula³

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Article Received on 24/04/2020 Article Revised on 15/05/2020 Article Accepted on 05/06/2020


ABSTRACT
The purpose of this review on microballoons is to collect the recent literature with a special focus on the novel

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Abstract

DEVELOPMENT AND VALIDATION OF UV-SPECTROSCOPIC METHOD FOR THE SIMULTANEOUS ESTIMATION OF CETIRIZINE AND CHLORPHENIRAMINE IN TABLET DOSAGE FORM

Hafsa Siddiqua*, D. Sowmya, D. Keerthi, Atif Zama, Yousuf Bin Ahmed and Mustafa Ayad Mohammed

ABSTRACT

The present research work is focused towards development and validation of a simple, sensitive, rapid, accurate, precise and economical UV electro photometric method for the estimation of cetirizine and chlorpheniramine in tablet dosage form. This experiment is done based on the measurement of absorption maxima of cetirizine and chlorpheniramine at 230 nm and 262 nm respectively in 0.1N NaOH. The linearity range of cetirizine and chlorpheniramine was found to be 5-30microgm/ml and 10-60micro gm/ml respectively. The proposed method was statistically validated for its accuracy, precision and specificity.

Keywords: Cetirizine, Chlorpheniramine, 0.1N NaOH, UV spectroscopy.

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Date of Submission: 10-06-2021 Date of Acceptance: 25-06-2021

ABSTRACT : The aim of the present study is to formulate and evaluate herbal Anti dandruff shampoo containing natural ingredients with an emphasis on safety and efficacy. It clears dirt, dandruff, promotes hair growth, luster, strengthens and darkens the hair. The shampoo sector is probably the largest unit of among the hair care products. Since the shampoos are one of the cosmetic product used in daily as the hair is special and cherished feature of humans. Majority of ingredients in the shampoos are chemicals and hence have been under severe attack due to its potential risk of side effects with its usage. The main objective is to study how to eliminate harmful synthetic ingredients from anti-dandruff shampoo formulation and substitute them with safe natural ingredients. An attempt has been made to combine modern formulation technology into a formula based on natural ingredients. The shampoo was prepared by taking the extracts of Orange peel powder (*Citrus Aurantium Dulcis-Rutaceae*) (active ingredient), Curry Leaves (*Murraya Koenigii-Rutaceae*), Ginger (*Zingiber Officinale-Zingiberaceae*), Aloe vera (*Aloe Barbadensis Miller-Asphodelaceae*), Reetha (*Sapindus Mukorossi-Sapindaceae*) in different proportions. Several physicochemical tests were performed for visual assessment, wetting time, pH, assurance of solid contents, surface tension, detergency, dirt dispersion, conditioning performance, foam stability. The formulated herbal shampoo is black in color with demonstrable good froth stability, detergency, good cleansing, low surface tension, optimum pH and conditioning activity. All these are the ideal characters for good quality of the herbal shampoo to be used in daily life. However, further scientific investigation is required for validation of its overall quality.

KEYWORDS : pH,Herbal shampoo, Natural ingredients, Hair,Dandruff, Cleansing action, Dirt removal

1. INTRODUCTION :

- Hairs are the integral part of human beauty.
- Hair is a protein filament that grows from follicles on the dermis or skin.
- Scientific name of hair is pili or pilus.
- Hair is a component of the integumentary system and extends downward into the dermal layer where it sits in the hair follicle.
- The presence of hair is a primary differentiator of mammals as a unique class of organisms. In humans, it is a cherished and highly visible indicator of health, youth, and even class.
- It has a sensory function, protects from cold and UV radiation, and can have a significant psychological impact when its growth or structure is deranged.
- At a microscopic level, the variety in length, color, diameter, and cross-sectional shape of each hair creates the characteristic profiles seen across ethnic groups and among individuals.

Hair Anatomy:

- Hair grows from hair follicles situated within the fatty layer of the scalp. Contrary to the popular belief that hair grows as single strands, hair follicles actually grow in groups of 1-4 hairs called "follicular units". ► At the base of each hair follicle is a hair bulb where the growth mechanism for producing hair occurs. Hair follicles get their nourishment from the blood vessels within the dermis. The cells divide and develop to produce the hair shaft. ► While the hair is still developing underneath the epidermis, it maintains a soft form. Once the pushes past the epidermis, its outside layer hardens into keratin.


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DEVELOPMENT OF STRATEGIES FOR REDUCING ADMINISTRATION AND TRANSCRIPTION ERRORS IN TERTIARY CARE HOSPITAL

Akshitha Reddy G.¹, Priscilla Nikhitha T.², Noman Nahdi³, Shambavi P.²,
Asha Jyothi V.^{1,*} and Venkateshwarlu Konuru¹

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Article Received on 28 May 2021,
Revised on 18 June 2021,
Accepted on 08 July 2021
DOI: 10.20959/wjpps20218.19547


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ABSTRACT
Introduction: Medication errors are the most common medical errors which occur because of inappropriate use of medication in each of medicine prescription stages for patients. Nurses and nursing students in hospitals are people that are directly related to giving drug to patients and that they are referred to as people could build the medication errors. Nurses use 40% of their time on the average in hospital for giving drugs to their patient's and there are 20,000 forms of medicines within the world that every one of them despite their therapeutic effects has complications and their own directions which need an expertise in accuracy in handling them. **Methods:** The study was a prospective, observational study which was conducted over a period of six months October 2019 to March 2020. The necessary information was collected from in-patient case sheets, treatment charts and nursing staff. The collected data was analyzed using (NCC MERP) taxonomy and assessed the types, frequency and factors responsible for medication administration and transcription errors. **Results:** During the study period, 252 errors were identified in which Administration errors are 134(53.17%) and Transcription errors are 118(46.82%). Types of errors observed were wrong frequency (29.76%), Omission error (19.44%), wrong strength (15.07%), and improper dose (11.11%). Majority of errors belongs to Category B (43.65%) followed by Category C (25.79%) and Category D (23.80%). Contributing factors responsible for errors are frequent interruptions and distractions (25.39%), staffing (22.22%), inexperienced personnel (12.3%) and lack of availability of health care professionals (12.3%). Human factors responsible for errors are Stress (30.95%), Knowledge deficit

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Abstract


A rapid and a precise Reverse Phase High Performance Liquid Chromatographic method has been developed and validated for the simultaneous estimation of Artemether and Lumefantrine, in bulk as well as in tablet dosage form. Separation was carried out on HPLC -Waters Model NO.2690/5 Inertsil-ODS C18 (250 x 4.6mm, 5µm) column using a mixture of Methanol: water 45:55 as mobile phase at a flow rate of 1.0ml/min. The detection was carried out at 254nm. The retention times of Artemether and Lumefantrine were found to be 4.249 , 5.995 respectively. The method produces linear response in the concentration range of 20ppm to 80 ppm of target concentration .The method was precise since the %RSD values of peak areas for five duplicate injection was found to be below " 2". The % recovery values for the analyte were found to be "99.987% & 99.99%" indicating the method was accurate. The LOD & LOQ of artemether and lumefantrine were found to be

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Preparation, Characterization and Evaluation of Pregabalin Microspheres
Gosa Geethika¹, Katla Venu Madhav^{1*}, Ayesha Sultana², Purnajula Naga Haritha³
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ABSTRACT
In the present work, Microspheres of Pregabalin using PLGA, Ethyl cellulose and HPMC K4M as polymers were formulated to deliver pregabalin via oral route. The results of this investigation indicate that solvent evaporation method can be successfully employed to fabricate pregabalin microspheres. In this work an effort was made to formulate microsphere of pregabalin by using different polymers. Prepared formulations are evaluated for bulk density, tapped density, percent mucoadhesion, Percent compressibility, Hausner's ratio, percentage yield, size and interaction study by Differential scanning calorimeter and *in vitro* drug release. Formulation which passed all the evaluation parameters was considered as best formulation of Pregabalin. The present study conclusively that pregabalin microsphere could be prepared successfully and formulation ES was shows satisfactory result.


Keywords: Pregabalin, PLGA, Ethyl cellulose and HPMC K4M and Microspheres.

INTRODUCTION
Oral route drug administration is by far the most preferable route for taking medications. However, their short circulating half life and restricted absorption via a defined segment of intestine limits the therapeutic potential of many drugs. Such a pharmacokinetic limitation leads in many cases to frequent dosing of medication to achieve therapeutic effect. Rational approach to enhance bioavailability and improve pharmacokinetic and pharmacodynamics profile is to release the drug in a controlled manner and site specific manner. Microspheres are small spherical particles, with diameters 1 μ m to 1000 μ m. They are spherical free flowing particles consisting of proteins or synthetic polymers which are biodegradable in nature. There are two types of microspheres; microcapsules and micromatrices, which are described as, Microcapsules are those in which entrapped substance is distinctly surrounded by distinct capsule wall and micromatrices in which entrapped substance is dispersed throughout the matrix. Microspheres are sometimes referred to as microparticles. Microspheres can be manufactured from various natural and synthetic materials. Microsphere play an important role to

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Volume: 7
Issue: 7
207-215
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MICROBALLOONS – A NOVEL FLOATING DRUG DELIVERY SYSTEM

Rithu Kadagala^{1*}, Hema Kumari² and Naga Haritha Pamujula³

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Article Received on 24/04/2020 Article Revised on 15/05/2020 Article Accepted on 05/06/2020

ABSTRACT
The purpose of this review on microballoons is to collect the recent literature with a special focus on the novel technological advancements in floating drug delivery system to achieve gastric retention. Microballoons (Hollow microsphere) promises to be a potential approach for gastric retention. Microballoons drug-delivery systems are based on non-effervescent system containing empty particles of spherical shape without core ideally having a size less than 200 micrometer. Microballoons drug delivery systems have shown to be of better significance in controlling release rate for drugs having site specific absorption. The floating microballoons showed gastroretentive controlled release delivery with efficient means of enhancing the bioavailability by means of enhancing the gastric retention. Optimized hollow microspheres will find the central place in novel drug delivery, particularly in safe, targeted and effective in vivo delivery promises to be a potential approach for gastric retention. The advantages, limitations, methods of preparation of hollow microsphere, applications, characterizations of microballoons and formulation aspects with various evaluation techniques and marketed products are included in detail.

KEYWORDS: Hollow microspheres, Gastroretentive, Floating, Controlled release.

INTRODUCTION
The oral delivery of drugs is the most favored route of administration because of ease of administration. Drug bioavailability of oral dosage forms is subjective by various factors. One of the significant factor is a Gastric residence time (GRT) of these dosage forms. Truly, gastric retention has received important interest in the past few years as many of the conventional oral delivery systems have some limits related to fast gastric emptying time. Gastroretentive dosage form is a type of novel drug delivery system which can persist in the stomach for prolonged period of time and thus increases the GRT of drugs.^[1]

The conventional drug delivery system achieves and also maintains the drug concentration in the therapeutically effective range desired for treatment, only when taken numerous times in a day.^[2] A drug that has a narrow absorption window in the GIT(Gastro Intestinal Tract) may have poor absorption. For these drugs, GRDDS(Gastro Retentive Drug Delivery Systems) offer the advantages in extending the gastric emptying time.


Many problems are faced in preparing controlled release systems for better absorption and improved bioavailability. Drug absorption from the GIT is a complex process and is subject to several variables.^[3] It is broadly, recognised that the extent of GIT drug absorption is correlated to contact time with small intestinal mucosa. GRDDS can persist in the GI region for many hours and therefore significantly extend the GRT of drugs. Extended gastric retention increases bioavailability, decreases drug waste and increases solubility of drugs which are less soluble in high pH environment.

Anatomy of Stomach
The stomach is J-shaped enlargement of GIT directly inferior to the diaphragm in epigastric, umbilical and left hypochondriac regions of the abdomen. It connects esophagus to the duodenum, the first part of the small intestine and provides a barrier to the delivery of drugs to the small intestine.^[4] The stomach has four regions: Cardia, Fundus, Body & Pylorus

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Nano Co-crystal Engineering Technique to Enhance the Solubility of Ezetimibe

Jyothi Bhandari¹, Neha Kanswami², Lakshmi PK^{3*}
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²Department of Pharmaceutics, G. Pulla Reddy College of Pharmacy, Medak, Hyderabad, Telangana, INDIA.

ABSTRACT
Background: Co-crystals have been highly promising for tailoring physico-chemical properties of Active pharmaceutical ingredient (API) by coupling with co-former. **Objectives:** The objective of the present work was to prepare and characterize novel nano co-crystals of Ezetimibe by different methods in various ratios of co-formers and to optimize the formulation based on the enhancement in solubility and dissolution rate. **Methods:** Ezetimibe nano co-crystals were prepared employing oxalic acid, succinic acid and maleic acid as co-formers by solvent evaporation method and anti-solvent method. **Results:** Instrumental analysis of co-crystals (DSC, IR, SEM and XRD) was performed to characterize the novel nano co-crystals. Dissolution studies and chemical stability were assessed and compared with pure Ezetimibe. The formulation with maleic acid as a co-former in the molar ratio of Ezetimibe and maleic acid (0.4:0.4) was found to be efficient than oxalic acid and succinic acid. The co-crystal dissolution profile in distilled water containing 0.5% SLS showed 18.8 folds increase in the dissolution efficiency and was found to be 96.2% within 45 min. **Conclusion:** The results demonstrate feasibility of co-crystallization method using maleic acid as co-former to enhance the solubility of poorly soluble drug Ezetimibe. **Key words:** Anti-solvent, Co-Formers, Maleic Acid, Oxalic acid, Solubility, Solvent evaporation, Succinic acid.

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DOI: 10.5530/jyp.2020.12s.40

INTRODUCTION
The oral route is the most preferred route of drug administration due to its convenience, good patient compliance and low medicine production costs. In order to a drug to be absorbed into the systemic circulation following oral administration, the drug must be dissolved in gastric fluid. For hydrophobic drugs, the dissolution process acts as the rate controlling step, which determines the rate and degree of absorption. Thus, one of the major challenges to development today is poor solubility, as an estimated 40% of all newly developed drugs are poorly soluble or in soluble in water.¹ Bioavailability of poorly water soluble hydrophobic drug (class II and class IV in biopharmaceutical classification system) is limited by solubility and dissolution rate. The dissolution rate of these drugs can be improved by decreasing particle size, decreasing crystallinity and/or increasing surface area. Several studies have been carried out to increase the rate of drugs dissolution by increasing the particle size. However, the fine drug particles have high tendency to agglomerate due to Vander Waals attraction or hydrophobicity, which both result in decrease in surface area over time.²⁻⁴ The enhancement of oral bioavailability of such poorly water soluble drugs remain one of the most challenging aspects of drug development. The development of nano co-crystals as a practically viable method to enhance bioavailability of poorly water soluble is to overcome the limitations of previous approaches such as salt formation, solubilization by co-solvents, particle size reduction and solid dispersion.⁵ One of the challenging tasks in the pharmaceutical industry is to discover ways of improving the physicochemical properties of active pharmaceutical ingredients (APIs). The solubility, dissolution rate, melting point, moisture sorption tendency and compressibility of APIs and/or excipients affect the bioavailability, design, processing, manufacturing and stability of the resultant dosage form.⁶ Pharmaceutical co-crystals are attractive to the pharmaceutical industry because they offer multiple opportunities to modify the chemical and/or physical properties of an API without making or breaking covalent bonds. Co-crystals may be defined as crystalline materials that consist of two or more molecular species held together by non covalent forces. In the recent years Pharmaceutical nano co crystals are highly promising in enhancing the dissolution rates and thus, improved bioavailability and efficacy of medication.⁷ In pharmaceutical industry, it has been a major lacuna wherein the solid properties of pharmaceutical active agents have been modulated using complementary molecules in the form of co-crystallomers (CCPs). Co-crystals containing an active pharmaceutical ingredient (API) can improve the physicochemical properties such as solubility/dissolution rate, stability and mechanical properties of an API. Nano-scaling will further advance these characteristics compared to their conventional forms because of a larger surface to volume ratio of nano sized particles, one can further improve properties of an API (e.g. dissolution rate). The enhanced dissolution rate of a nanocrystal is mainly due to the increased surface area. A slight increase in solubility owing to the curvature and the high-energy surfaces of nanosized particles will also contribute to faster dissolution. The components in a co-crystal exist in a definite stoichiometric ratio and assemble via non-covalent interactions such as hydrogen bonds, ionic bonds, π - π Vander Waals interactions rather than by ion pairing. Further, co-crystals have

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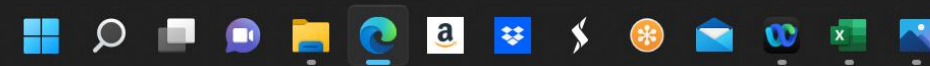
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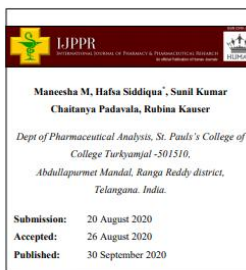

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Development and Validation of RP-HPLC Method for the Simultaneous Estimation of Bupropion and Zonisamide in Bulk and Tablet Dosage Form



Keywords: Bupropion, Zonisamide, RP-HPLC, ICH guidelines, Validation

ABSTRACT

The present research work aims to develop and validate the RP-HPLC method for the simultaneous estimation of bupropion and Zonisamide in bulk and tablet dosage forms. Chromatographic separation was achieved by using water mobile phase - ODS C18 (250 x 4.6 mm, 5 μ) column with a flow rate of 1.0 ml/min. The injection volume was 20 μ l. The optimized mobile phase was methanol and phosphate buffer in the ratio of 80:20 v/v. UV detector wavelength monitored at 252 nm and the run time was 8 min. The retention time was found to be 3.226 min for Bupropion and 4.522 min for Zonisamide. The linearity was obtained in the range of 20-80 ppm for both drugs. The developed method was validated statistically according to ICH guidelines. The proposed method was accurate, precise, reproducible, and robust and can be employed for routine quality control analysis of pharmaceutical formulations.


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DEVELOPMENT OF STRATEGIES FOR REDUCING ADMINISTRATION AND TRANSCRIPTION ERRORS IN TERTIARY CARE HOSPITAL

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Article Received on 28 May 2021,
Revised on 18 June 2021,
Accepted on 08 July 2021
DOI: 10.20959/wjpps20218.19547


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ABSTRACT
Introduction: Medication errors are the most common medical errors which occur because of inappropriate use of medication in each of medicine prescription stages for patients. Nurses and nursing students in hospitals are people that are directly related to giving drug to patients and that they are referred to as people could build the medication errors. Nurses use 40% of their time on the average in hospital for giving drugs to their patient's and there are 20,000 forms of medicines within the world that every one of them despite their therapeutic effects has complications and their own directions which need an expertise in accuracy in handling them. **Methods:** The study was a prospective, observational study which was conducted over a period of six months October 2019 to March 2020. The necessary information was collected from in-patient case sheets, treatment charts and nursing staff. The collected data was analyzed using (NCC MERP) taxonomy and assessed the types, frequency and factors responsible for medication administration and transcription errors. **Results:** During the study period, 252 errors were identified in which Administration errors are 134(53.17%) and Transcription errors are 118(46.82%). Types of errors observed were wrong frequency (29.76%), Omission error (19.44%), wrong strength (15.07%), and improper dose (11.11%). Majority of errors belongs to Category B (43.65%) followed by Category C (25.79%) and Category D (23.80%). Contributing factors responsible for errors are frequent interruptions and distractions (25.39%), staffing (22.22%), inexperienced personnel (12.3%) and lack of availability of health care professionals (12.3%). Human factors responsible for errors are Stress (30.95%), Knowledge deficit

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DEVELOPMENT OF STRATEGIES FOR REDUCING MEDICATION ADMINISTRATION AND TRANSCRIPTION ERRORS IN TERTIARY CARE HOSPITAL.

Priscilla Nikhitha T¹, Akshitha Reddy G¹, Dr. Asha Jyothi V*, Dr. Venkateshwarlu K²
Pharm D¹, HOD of Pharmacology¹, HOD of Pharmacy Practice², St. Pauls College of Pharmacy, Hyderabad.

ABSTRACT

The principal drawback of the present scenario in health care system is, the failure in the treatment process is mainly due to Medication Errors that lead to harm to the patient, hospitalization and even death. Our study mainly aimed to identify Medication Administration Errors and Medication Transcription Errors, and the factors responsible for causing error in the hospital setting. It is the responsibility of Health Care Professionals to enhance Patient Safety and Quality of life. So, our study mainly focusses on the role of Clinical Pharmacist in detecting, evaluating and preventing medication administration errors reaching the patient and also to know the impact of suggestions given to Health Care Staff by clinical pharmacist either helped them to prevent errors or not. Taking all these points into consideration we suggest implementation of interventions or strategies in an effort which helps Health Care Professionals to prevent Medication Administration and Medication Transcription Errors. In every hospital setting it is mandatory to introduce some professional programs which help the nurses to improve the handling and administration of intravenous infusions and other health care professionals to transcribe the prescription drugs into drug chart without any failure.

Keywords: Medication Administration Errors, Medication Transcription Errors, Clinical Pharmacist, Health Care Professionals.

VOLUME 8, ISSUE 7, 2021 72 <http://stradresearch.org/>

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20. EFFECT OF POLYHERBAL COMBINATIONS AND ESSENTIAL OILS AGAINST BIOFILM OF STREPTOCOCCUS MUTANS Background: Herbal extracts have been used in dental products for many years owing to their anti-adherence effect on Streptococcus mutans (S. mutans) in the biofilm formation. Dental caries are developed by the colonization of oral bacteria on the surface of teeth and adherence is the first step in the colonization process. Objective: The objective of the present study was to explore the anti-biof... S. G. Krishna, K. A. Reddy, M. S. Kumar, G. Ramu, B. U. Rajeswari and M. Kiranmai * Department of Pharmaceutical Chemistry, St Pauls College of Pharmacy, Hyderabad, Telangana, India. Bacteria predominantly remain in a self-produced polymeric matrix, adherent to an inert or living surface. This matrix is visualized as a slimy layer, a number of bacteria are attached to the surface of the matrix. The formation of biofilms depends on the	1118	486	0
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IJPSR (2020), Volume 11, Issue 1 (Research Article)

Received on 13 April 2019; received in revised form, 29 July 2019; accepted, 17 August 2019; published 01 January 2020

EFFECT OF POLYHERBAL COMBINATIONS AND ESSENTIAL OILS AGAINST BIOFILM OF *STREPTOCOCCUS MUTANS*

S. Gopi Krishna¹, K. Abhilash Reddy¹, M. Shiva Kumar¹, G. Ramu¹, B. Una Rajeswari² and M. Kimmmai³

¹Department of Pharm. D, Bharat School of Pharmacy¹, Department of Pharmaceutical Biotechnology, Bharat Institute of Technology², JNTUH, Mangalpally, Ranga Reddy - 501510, Telangana, India, Department of Pharmaceutical Chemistry³, St Pauls College of Pharmacy, Hyderabad - 501510, Telangana, India.

Keywords:
Streptococcus mutans,
 Antisurface activity, Polyherbal
 extracts, Plate count method,
 Essential oils

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ABSTRACT: **Background:** Herbal extracts have been used in dental products for many years owing to their anti-adherence effect on *Streptococcus mutans* (*S. mutans*) in the biofilm formation. Dental caries are developed by the colonization of oral bacteria on the surface of teeth and adherence is the first step in the colonization process. **Objective:** The objective of the present study was to explore the anti-biofilm effect of the various combinations of herbal extracts and essential oils against *S. mutans* which play a central role in causing dental caries. **Methods:** Hydroalcoholic extracts of *Terminalia chebula* (*T. chebula*), *Psidium guajava* (*P. guajava*), *Andrographis indica* (*A. indica*) and *Pongamia pinnata* (*P. pinnata*) were prepared separately and dried. Various combinations of herbal extracts, as well as essential oils *Syzygium aromaticum* (clove) and *Mentha piperita* (Peppermint oil), were tested for anti-biofilm potential on the glass surface. The number of adhering bacteria (CFU/ml) was determined by the plate count method. **Results:** It was found that all extract combinations and essential oils have shown anti-biofilm activity. The 2.2:1:1 of extracts and 2:2 ratio of essential oils has shown less bacterial count compared to all other tested ratios. Furthermore the herbal extract ratio of 2.2:1:1 has shown significant ($P < 0.01$) anti-biofilm activity when compared to standard chlorhexidine mouthwash. **Conclusion:** These findings suggest that the active constituents present in the combined extracts could synergize the anti-biofilm activity owing to the reinforcement effect of constituents present in the combined mixture.

INTRODUCTION: The human mouth with its diverse nature and environmental change are well known for its unrestricted growth and formation of natural biofilms comprising a heterogeneous microbial population among which vast variety of organisms are bacteria.

Among the microbes *Streptococcus mutans* (*S. mutans*) have been implicated as a primary causative organism of dental caries¹. Dental caries and gingivitis are the most prevalent oral infectious diseases of humans and are due to the accumulation of the dental plaque (a microbial biofilm) to the tooth surface and at the gingivitis margin respectively². Strains of *S. mutans* adhere by hydrophobic bonds to enamel surface and ferment dietary carbohydrates, notably sucrose³.

Sucrose metabolism promotes the firm adherence and cellular aggregation (biofilm) of bacteria to the tooth surface using glucan produced by the

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cooperative action of glucosyltransferase (gtf)⁴. The oral microflora of biofilm produces acids by carbohydrate fermentation and initiates the formation of the tooth enamel and demineralization and powdered separately. Each plant material was extracted separately using an equimolar ratio of ethanol and water (50:50) by using a Soxhlet extraction method. The hydroalcoholic extracts

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PREGNANCY BLUES - TREATING ANEMIA WITH FOLIC ACID LOZENGES
REVIEW

Ayesha Sultana* and Nasreen Sultana
St. Pauls college of Pharmacy, Turkayamjal, R.R District, Hyderabad, India.
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ARTICLE INFO

Key Words
Anemia, Folate, Methylfolate, Lozenges, Pregnancy, RBC

ABSTRACT
Folic acid also known as folate is an essential vitamin. It is converted to folate in our body. Folate is the natural form of the vitamin, found in whole foods. Methylfolate is the most bioavailable form of vitamin B9. Folic acid helps in producing new cells and keeps them healthy. Folic acid when formulated as lozenges is very convenient for administration and its used to prevent neural tube defects which develops in early pregnancy, sufficient intake of this vitamin even before pregnancy have protective benefits and reduces the risks. It can prevent the pregnancy blues like miscarriage, preterm delivery and maternal anemia. Its recommended to take folate for three months prior to pregnancy, continue through pregnancy and also post partum. A growing baby absorbs folate from its mother. Folate deficiency anemia is tested by complete blood count (CBC) to measure the number and appearance of RBC. Lack of folate makes RBC to look large and immature. Each type of anemia is caused by something different, each ranges from mild to severe. RBC plays a central role in this condition, with all forms of anemia tiredness or fatigue is the most common symptom because of low RBC. Shortness of breath, dizziness, headache, coldness in hands and feet, pale or yellowish skin are the signs along with irregular heartbeat. Low RBC causes heart to work harder to move oxygen rich blood through the body. So treating this condition with folic acid lozenges is the most easy, economical and safe to the patient

INTRODUCTION
Anemia is a medical condition where the RBC count is less than the normal, the blood do not have sufficient healthy red blood cells. It results from lack of red blood cells or dysfunction RBC in the body leading to reduced flow of oxygen to the organs in the body or tissues. The RBC in the body is low and it is measured according to the amount of hemoglobin, the protein present in RBC carries the oxygen from the lungs to the body's tissue. In women suffering from anemia the hemoglobin is less than 12.0g/100 ml. According to National heart, lung & blood institute anemia is the most common blood disorder in women and children. The different types of Anemias include:
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2. Anemia due to folate (Folic acid deficiency)
3. Anemia due to iron deficiency
4. Anemia of chronic disease
5. Hemolytic Anemia
6. Idiopathic aplastic Anemia
7. Megaloblastic Anemia
8. Pernicious Anemia
9. Sickle cell Anemia
10. Thalassemia
11. Aplastic or Hypoplastic Anemia
12. Sideroblastic Anemia-Acquired and Hereditary
13. Myelodysplastic syndrome
14. Autoimmune Hemolytic Anemia
15. Congenital dyserythropoietic Anemia (CDA)

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A REVIEW ON CORONAVIRUS – THE PANDEMIC CAUSING GLOBAL CRISIS

Ayesha Sultana^{1*}, Mohammed Aleemuddin²

¹Department of Pharmaceutics, St. Pauls College of Pharmacy, Turkayamjal, R.R District, Hyderabad, India.

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ARTICLE INFO

Key Words
COVID – 19, pandemic, Quarantine.

ABSTRACT
The word COVID - 19 is abbreviated as CO - Corona, VI - Virus, D - Disease and 19 indicates the year it emerged. The occurrence of coronavirus disease had been confirmed in around 210 countries and territories. The virus had infected 9,360,758 people worldwide. The most severely affected countries include USA, Brazil, U.K, Russia, Spain and India is inching towards the most affected country. Telangana confirms 9,553 confirmed cases till June 24-2020. A pandemic is an epidemic of an infectious disease which spreads across large regions and countries affecting many people. The 2019-2020 Covid -19 pandemic is expected to have negative effect on the global economy, for years to come with a drop in GDP accompanied by increase in unemployment around the world. The basic strategies in the control of an outbreak are containment and mitigation. Another strategy called as suppression strategy includes stringent population – wide social distancing, isolation of cases and quarantine can be considered.

INTRODUCTION
Coronavirus belongs to the family Coronaviridae. Club-shaped glycoprotein spikes in the envelope give the viruses a crown like appearance. Coronaviridae is generally considered to contain two genera, Coronavirus and Torovirus, which differ in nucleocapsid morphology, the former being helical and the latter being tubular. Coronaviruses constitute the subfamily Orthocoronavirinae, in the family Coronaviridae, order Nidovirales, and realm Riboviria.

STRUCTURE:
Coronaviruses are large, roughly spherical, particles with bulbous surface projections. The average diameter of the virus particles is around 125 nm (125 µm). The diameter of the envelope is 85 nm.

And the spikes are 20 nm long. The viral envelope consists of a lipid bilayer, in which the membrane (M), envelope (E) and spike(S) structural proteins are anchored. The ratio of E: S: M in the lipid bilayer is approximately 1:20:300. On average a coronavirus particle has 74 surface spikes. The coronavirus surface spikes are homotrimers of the S protein, which is composed of an S1 and S2 subunit. The homotrimeric S protein is a class I fusion protein which mediates the receptor binding and membrane fusion between the virus and host cell. The S1 subunit forms the head of the spike and has the receptor binding domain (RBD). The S2 subunit forms the stem which anchors the spike in the viral envelope and on protease activation enables fusion. The E and M protein are important in forming the viral envelope and maintaining its structural shape.

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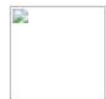
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R. Aroza, Elstin Raj, C. Gowda, G. Rodrigues, B. K. Jisha and Rajesh V*

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OBESITY PROMOTES ALZHEIMER'S DISEASE IN MIDDLE AGED INDIVIDUALS BY AGGRAVATING NEURODEGENERATION THROUGH VARIOUS MECHANISMS: A REVIEW

Ramya Akoju¹, Sravana Jyothi², Anusha Govindula², Subba Rao Chamakuri², Ashish Suttie³ and Md. Sarvar Pasha⁴

¹Depart. of Pharmacology, Vagdevi College of Pharmacy, Hanamkonda, Warangal-506001 (Telangana), India.
²Department of Pharmacy, Vagdevi College of Pharmacy, Karimnagar-505527 (Telangana), India.
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⁴Department of Pharmaceutical Analysis, Vagdevi Institute of Pharmaceutical Sciences, Karimnagar-505527 (Telangana), India.

Abstract

Obesity can be defined as a metabolic chronic disorder resulting due to imbalance in the intake and expenditure of energy which is also linked to several disorders of metabolism, increasing expression of pro-inflammatory markers, as well as an increase in the risk of different diseases leading to cardiovascular diseases, type-2 diabetes, and various types of cancer. The primary reasons for the present-day issues of obesity are linked with abruptly changing lifestyles, an increase in energy-dense food consumption in saturated sugar and fat as well as a reduction in physical activity. Obesity apart from causing metabolic disorders also accounts for the onset of AD symptoms in middle-aged obese persons and progresses the symptoms in elderly patients already with the disease by aggravating neurodegeneration via various pathways which include an increased generation and deposition of β -amyloid by cholesterol, neuroinflammation, oxidative stress, brain insulin resistance, hyperlipidemia induced cerebral ischemia and also by accelerating the normal process of aging.

Key words: Obesity, Neurodegeneration, Insulin Resistance (IR), Cerebral Ischemia, Neuroinflammation.

Introduction

Neurodegenerative diseases are characterized by progressive, irreversible loss of neurons from specific regions of the brain. Neurodegenerative diseases that can affect cognitive ability include Alzheimer's disease (AD), Pick's disease, Parkinson's disease, Lewy body disease, Huntington's disease, progressive supranuclear palsy and cerebellar degeneration (Martha *et al.*, 2007). Learning is the process of acquisition of information and skills, while subsequent retention of that information is called memory. Learning and memory together called as cognition. Cognitive impairment is deficit in the processes by which persons perceive, encode, store, retrieve, and use information. Many processes can lead to cognitive impairment which includes neurodegeneration, strokes, tumors, head trauma, hypoxia, cardiac surgery, malnutrition, attention-deficit disorder, depression, anxiety and the side effects of medication, and normal ageing. Common vascular disorders that affect cognition include stroke, multiple strokes, and cerebral embolic disease (Pattewar *et al.*, 2011). Alzheimer's disease (AD), first identified by Alois Alzheimer's in 1906 is an irreversible, progressive neurodegenerative brain disease that slowly destroys memory and thinking skills and eventually even the ability to carry out the simplest tasks. AD is associated with localized loss of cholinergic neurons, mainly in the hippocampus and frontal cortex of the brain (Rang *et al.*, 2007). AD is the most common cause of dementia among people of age 65 and older. Dementia is the loss of cognitive functioning-thinking, remembering, reasoning and behavioral abilities. The two hallmarks of the disease are Beta amyloid plaques (AP), the extracellular amorphous deposits of β -amyloid protein and intraneuronal neurofibrillary tangles (NFTs), comprising filaments of a phosphorylated form of a microtubule-associated protein (Tau) build up inside the neuron (Amartya *et al.*, 2011). technologies being invented every day especially in the medical field with newer CT (computer tomography) and MRI (magnetic resonance imaging) Scans being used

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Development and Validation of an Analytical Method for the Estimation of Netupitant and Palonosetron using RP-HPLC

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ABSTRACT:

A Rapid and Precise Reverse Phase High Performance Liquid Chromatographic method has been developed for the validated of Palonosetron and Netupitant, in its pure form as well as in tablet dosage form. Chromatography was carried out on X-Terra C18 (4.6 x 150mm, 5µm) column using a mixture of Methanol: Buffer pH 4.5: Acetonitrile (65:15:20) as the mobile phase at a flow rate of 1.0 ml/min, the detection was carried out at 212nm. The retention time of the Palonosetron and Netupitant was 2.090, 5.289 ±0.02min respectively. The method produce linear responses in the concentration range of 5-25µg/ml of Palonosetron and 50-250µg/ml of Netupitant. The method precision for the determination of assay was below 2.0 %RSD. The method is useful in the quality control of bulk and pharmaceutical formulations.

Keywords: Palonosetron, Netupitant, RP-HPLC, validation.

1. INTRODUCTION

Palonosetron, (5S)-3-[(3S)-1-azabicyclo[2.2.2]octan-3-yl]-3-azatricyclo[7.3.1.0^{1,5}]trideca-1(12),9(13),10-trien-2-one 5-HT₃ antagonist used in the prevention and treatment of chemotherapy-induced nausea and vomiting (CINV). It is the most effective of the 5-HT₃ antagonists in controlling delayed CINV nausea and vomiting that appear more than 24 hours after the first dose of a course of chemotherapy and is the only drug of its class approved for the prevention of CINV. Palonosetron was shown in Fig.

Fig. 1: Chemical Structure of Palonosetron

Netupitant is an antiemetic drug. In the United States, the combination drug netupitant/palonosetron (trade name Akynzeso) is approved by the Food and Drug Administration for prevention of acute and delayed chemotherapy-induced nausea and vomiting, including highly emetogenic chemotherapy such as with cisplatin. In Europe, it is approved by the European Medicines Agency for the same indication

Fig. 2 Chemical Structure of Netupitant

The literature survey revealed that there are few RP-HPLC [1-5], UV6 and LC-MS/7 methods are available for the estimation of Palonosetron. However, stability indicating UPLC method was not available. Hence, present work focused on the development and validation of simple, rapid, robust and economic stability indicating UPLC method. To the best of our knowledge, the anticipated method is to allow estimation of

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Khatun Manjira, S. Vanitha Rajan

ABSTRACT :
Liposomes are lipid-based carrier drug delivery system particles of particle size between 0.05 and 100 µm in diameter composed of a solid hydrophobic lipid core [hydrophobic] surrounded by a layer of phospholipid molecules embedded in their surface. Liposomes delivery system is a suitable carrier system for the delivery of both hydrophobic and hydrophilic drugs. Much of research is now focused on using lipids as novel carriers for drug molecules. Lipid based drug delivery systems like solid lipid nanoparticles, liposomes [L] are being developed as substitutes for aqueous based delivery systems due to the increasing faculty needed concerns of successful after intracellular penetration of polymers and effective benefits offered by lipids as carriers. Liposomes are new type of drug delivery system developed mainly for parenteral systems. Aims of the research paper discussed (Lipid based drug delivery system) are to review the liposomes, its types, its advantages and disadvantages. This article explores about formulation of liposomes, factors influencing the quality attributes of liposomes, mechanism behind drug loading, evaluation of liposomes and challenges in the development of liposomes are discussed in detail.

Keywords :
Liposomes, Phospholipid, hydrophobic, hydrophilic, drug, polymers, encapsulation.

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Research Article

A New Validated RP-HPLC Method for Simultaneous Estimation of Lumacaftor and Ivacaftor in Pharmaceutical Dosage Form

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Received: 10-03-2019; Revised: 22-04-2019; Accepted: 05-05-2019

ABSTRACT

A simple, selective, linear, precise and accurate reverse phase high performance liquid chromatography method was developed and validated for the simultaneous estimation of Lumacaftor and Ivacaftor in tablet dosage form. The chromatographic separation was achieved on Symmetry C18 4.6x250mm, 5μ column using a mobile phase consisting a mixture of Methanol: Water in the ratio of 60:35 v/v at a flow rate of 1ml/min at an ambient temperature and detection was carried out at 270 nm. The clear chromatography peaks were identified with retention times of 2.460 min for lumacaftor and 4.312 min for ivacaftor. The proposed technique was validated according to ICH guidelines in respect to specificity, linearity, accuracy, precision, LOD, LOQ and robustness. The linearity was observed in the concentration range of 45-225 μg/ml for lumacaftor and 10-50 μg/ml for ivacaftor. Linear regression coefficient for both drugs was 0.999. The percentage recovery of lumacaftor and ivacaftor was in between 98-102%. The %RSD for repeatability and intermediate precision was less than 2%. LOD was 0.83 and 1.3 and LOQ was 2.5 and 3.95 for lumacaftor and ivacaftor respectively. The results of validation parameters were met ICH requirements. Hence, the proposed method can be used for the determination of lumacaftor and ivacaftor in various pharmaceutical dosage forms during regular and quality-control analysis.

Keywords: Lumacaftor, Ivacaftor, Simultaneous estimation, RP-HPLC, tablets.

INTRODUCTION

Cystic fibrosis (CF) is a hereditary disease affects the endocrine, gastrointestinal, reproductive, and respiratory systems. It causes the assemblage of abnormally thick mucus, leading to the obstruction. CF is caused by any one of several defects in the cystic fibrosis transmembrane conductance regulator (CFTR) protein, such as F508del mutation, G551D mutation that causes the disease.¹ This life-restriction disease requires multiple daily medications to extend the life and get a better quality of life. Many conventional regimens including pancreatic enzyme supplements, multivitamins, mucolytics, antibiotics, bronchodilators, and anti-inflammatory agents have been used for the treatment of CF. Lumacaftor (CFTR corrector) and Ivacaftor (Potentiator) are new drugs used in combination (Brand name Orkambi) for the treatment of cystic fibrosis. Lumacaftor (LMF) is an aromatic amide, is a chemically 3-[6-[3-(1,2-difluoro-1,3-benzoxazol-5-yl) cytopropene carbonyl] amino]-3-methylpiperidin-2-yl] benzoic acid. Figure 1 with the molecular formula of C₂₄H₂₇N₃O₄ and molecular weight is 452.454. It is a white to off-white powder that is practically insoluble in water (0.02 mg/mL). Lumacaftor acts as a chaperone during protein folding and increases the number of cystic fibrosis transmembrane conductance regulator proteins which are trafficked to the cell surface by targeting the defective F508del CFTR gene.² Ivacaftor (ICF) is an aromatic amide, chemically it is a N-(2,4-di-tert-butyl-5-hydroxyphenyl)-4-oxo-1H-quinoline-3-carboxamide. Figure 2 with a molecular formula of C₂₄H₂₇N₃O₄ and molecular weight is 392.499. Ivacaftor is a white to off-white powder that is virtually insoluble in water (<0.05 mg/mL). Ivacaftor is the first drug that treats the original cause rather than the symptoms of the disease. Ivacaftor is a potentiator of the CFTR protein, a chloride channel present at the surface of epithelial cells in multiple organs, it increases chloride transport by potentiating the channel-open probability (or gating) of the G551D-CFTR protein.^{3,4} Lumacaftor and Ivacaftor fixed-dose combination oral tablets are developed by Vertex Pharmaceuticals and both were approved by the FDA in 2015.⁵ These drugs, when given in a fixed dose combination product rather than individual entities, has shown to get potential therapy in a condition of cystic fibrosis by correcting the defective protein.^{6,7} Number of drugs are introducing into the market yearly. There is a time lag between the date of the prologue of a drug into the market and the date of its enclosure in pharmacopoeia. Hence, standards and analytical methods either for the individual or combination of drugs may not be official in the pharmacopoeia. Some analytical procedures are not accessible in the literature due to patent regulations. Analytical methods for the drugs in formulations are not available owing to the interference caused by the excipients. Therefore, it becomes essential to build up a newer analytical procedure for such drugs.

Literature survey reveals many analytical methods have been published for simultaneous estimation of Lumacaftor and Ivacaftor in bulk, pharmaceutical dosage forms and in biological samples. These methods are UV Spectrophotometric techniques, HPLC method, UPLC method, stability indicating methods, and LC-MS/MS methods.⁸⁻¹⁷ The objective of our study is that high-

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Original Research Article

Development and In-Vitro Anticancer Evaluation of Dual Loaded Nanoparticles on Human Glioblastoma Multiforme Cell line T98G

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DOI: 10.21276/sjbr.2019.4.3.2

Abstract

Cancer treatment suffers with the failure of chemotherapeutic agents because of multi drug resistance. Investigation of new molecules involves huge expenditure and time. Present investigation aims at the dual loading of anticancer agent Imatinib Mesylate along with Piperine on to bovine serum albumin nanoparticles in order to overcome multi drug resistance and to achieve the maximum therapeutic effect. Dissolution method with the addition of acetone is used to prepare the nanoparticles. Drugs and polymer are subjected to differential scanning calorimetry. Nanoparticles are evaluated for encapsulation efficiency, particle size, zeta potential and drug release studies. In-vitro anticancer activity of the nanoparticles against Human Glioblastoma Multiforme (GBM) cell line T98G is determined. Results indicated compatibility in DSC, an encapsulation efficiency of 52.45%-89.25%, particle size of 208.3nm -497.3nm, zeta potential of -36.5mV to -63.2mV and drug release of 86.25% to 94.56% in 24h. In-vitro anticancer activity % of cell death is 68.25% to 79.65%. Results suggest increased anticancer activity with the nanoparticles dual loaded with Imatinib mesylate and Piperine.

Keywords: Piperine, Imatinib mesylate, anticancer activity, bovine serum albumin and dissolution method.

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INTRODUCTION

Even with the advances in cancer research, multi drug resistance is still a big challenge for cancer chemo therapy. This resistance may be because of multiple mechanisms like, decreased uptake of drug, more drug efflux, DNA repair mechanisms and many more [1]. This ultimately results in the failure of chemotherapeutic agents. The cancer drug resistance is a complex phenomenon and more difficult to overcome. A combination therapy which can show synergy or an additive effect with reduced drug resistance, along with anticancer drug may provide a new strategy in drug resistant cancers [2]. Imatinib mesylate (IMB) is a selective tyrosine kinase inhibitor approved for the treatment of chronic myelogenous leukaemia and gastrointestinal stromal tumors. Several clinical studies reported the use of IMB in the treatment of patients with malignant glioma [3]. IMB is a substrate for multidrug resistance proteins. An increased expression of P glycoprotein (Pgp) plays an important role in drug resistance in IMB in treating cancer [4]. Piperine (PIP) being natural anticancer can act as anticancer agent by detoxification of enzymes, suppression of cell self renewal and also by inhibition of cancer cell proliferation [5]. Literature also supports PIP, a substrate for PGP can prevent the efflux and can be an interesting novel modulator of multidrug resistance [6]. Present investigation aimed at dual loading of the PIP and IMB on to bovine serum albumin (BSA) nanoparticles (NPs) in order to evaluate their anticancer activity on Human glioblastoma multiforme (GBM) cell line T98G.

MATERIALS AND METHODS

Materials

Imatinib Mesylate is a kind gift sample from MSN laboratories, Hyderabad. Piperine and Bovine serum albumin are from Sigma Aldrich, Mumbai. All the other chemicals and reagents used are of analytical grade.

Preparation of dual loaded NPs


BSA dual loaded NPs were prepared by dissolution method with the addition of acetone as the dissolving agent. 1% BSA solution was prepared in double distilled water. pH of the solution was adjusted by using 0.1M NaOH. 0.5g of (IMB) and (PIP) in 1:1 ratio was added to acetone. Acetone was added

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Olagundoye Olufemi O. Ogunyemi Elizabeth B. Arowolaju Modupeola O.

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Pharmaceutical Chemistry, Adhiparasakthi College of Pharmacy, Melmaruvathur.

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DEVELOPMENT AND VALIDATION OF A STABILITY INDICATING RP-UPLC METHOD FOR THE SIMULTANEOUS QUANTIFICATION OF SOFOSBUVIR AND VELPATASVIR IN FINISHED DOSAGE FORM

B Lakshmi, P.Sunil Kumar Chaitanya*, B.Chandrasekar
Department of Pharmaceutical Analysis, St.Pauls College of Pharmacy, Turkayamjal, Hyderabad.

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Asadullah¹, Sumaira Kanwal², Jalal ud din³, Muhammad Samsoor Zarak^{4*}, Hamaiyal sana⁴, Khushhal Khan⁵, Jaffar khan⁴, Muhammad Yasir Baloch⁴, Noman ul haq², Sohail Riaz², Aqeel Nasim⁵
¹Helmand Bost Hospital,
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Research Article

Improvement of Anti-Hyperlipidemic Activity and Oral Bioavailability of Fluvastatin Via Solid Self-Microemulsifying Systems and Comparative with Lquisolid Formulation

Author(s): Katla Venu Madhav and Veerabrahma Kishan*

Volume 15 , Issue 9 , 2018

Page: [1245 - 1260]

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Abstract

Background: FR&D scientists continuously try to increase the in vivo performance of low soluble and bioavailable drugs. Solid SMEDDS and lquisolid formulations are relatively simple to develop and fall within the novel drug delivery approaches. Here, a comparison is made to know relative superiority.

Objective: The study aimed to conduct comparative pharmacokinetic (PK) and pharmacodynamic (PD) studies of developed Fluvastatin (FLU) solid SMEDDS (SSMED) and lquisolid formulation (LS) for their relative in vivo efficacy.

Method: FLU liquid SMEDDS were optimized by central composite design (CCD). Components, oil, surfactant and co-surfactant were selected as variables; particle size, self-emulsifying time and % drug release in 15min were selected as responses. L-SMEDDS with positive charge inducer were adsorbed on to porous carriers and characterized. Lquisolid formulations were prepared with Avicel PH-102 and Neusilin US2 as carriers.

Results: Optimized L-SMEDDS contained 24.92 mg of oil, 45.18 mg of surfactant and 34.28 mg of cosurfactant. SSMEDs containing Syloid XDP (SSMED-XDP) as carrier was selected based on flow properties and liquid retention potential. The average particle size of SSMED-XDP was 154.30 ± 1.10 nm, PDI was 0.311 ± 0.03 and ZP was $+19.57 \pm 1.34$ mV after dilution. The drug release from SSMEDXDP and LS formulations was higher than FLU powder. The bioavailability of SSMEDs was increased by 3.00 fold and that of LS by 1.49 fold more than FLU-suspension. SSMEDs showed 12 h, while LS and suspension showed only 6 h lipid-lowering effect.

Conclusion: The development of solid SMEDDS resulted in superior performance in both PK and PD effects over the LS formulation.

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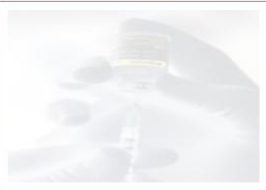
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KINETICS & STABILITY STUDIES OF CONTROLLED POROSITY OSMOTIC PUMP TABLET OF ATENOLOL

Ayesha Sultana* and D. Varun

ABSTRACT (542)

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SERUM INTERLEUKIN-6 AND GASTRIC MUCOSA EXPRESSION OF CD3 AND CD20 IN DYSTHYROID RATS

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KINETICS & STABILITY STUDIES OF CONTROLLED POROSITY OSMOTIC PUMP TABLET OF ATENOLOL

Ayesha Sultana^{1*} and D. Varun²

¹Research Scholar, Faculty of Pharmacy, Pacific Academy of Higher Education and Research, Udaipur, Rajasthan-313003, India.
²Professor and Principal, Department of Pharmaceutics, Sri Indu Institute of Pharmacy, Sheriguda, Ibrahimpatnam-501510, Hyderabad, Telangana, India.

Article Received on 29 January 2018,
Revised on 19 Feb, 2018,
Accepted on 11 March 2018,
DOI: 10.20959/wjpps20184-11280

***Corresponding Author**
Ayesha Sultana
Research Scholar, Faculty of Pharmacy, Pacific Academy of Higher Education and Research, Udaipur, Rajasthan-313003, India.

ABSTRACT
The objective of the present study was to determine the curve fitting analysis and stability of controlled porosity osmotic pump tablet of Atenolol. The linearity of all the kinetic models was estimated. The optimized formulation follows zero order kinetics and the R^2 for zero order was found to be 0.999 which is considered to be the best fit model. The drug release data was obtained, quantitatively correlated and interpreted by these kinetic mathematical models which are important for optimization of the formulations. These models helps to measure significant physical parameters such as drug diffusion coefficient and model fitting on experimental data. The optimized formulation was subjected to accelerated stability studies as per ICH guidelines. The temperature was maintained at $40 \pm 2^\circ\text{C}$ and relative humidity of $75 \pm 5\%$. It was observed that no significant change in the drug release by dissolution during stability testing. This testing helps in selecting the best formulation from a series of formulations.

KEYWORDS: Atenolol, Curve fitting, Optimization, Stability, Zero order.

INTRODUCTION
The drug release mechanisms and kinetics are the two important characteristics of a delivery system in describing the drug dissolution profile. A number of mathematical models have been developed to analyze drug release. The model that best fits the release data is selected based on the correlation coefficient (r) value in these models. The model that has high "r" value is considered as the best fit of the release data. The various Mathematical Models are:

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Alpesh Sultana* and U. Varun

Abstract

The objective of the present research was to explore in detail about in-vivo studies, to determine the pharmacokinetic parameters which were estimated by comparing the marketed Atenolol tablet (Atenolol 50mg) with the optimized CPOP tablet of Atenolol in rabbits and by analyzing in UV Spectrophotometer. The Cmax, Tmax, AUC, AUC0-24, and MTT were estimated. The animal testing is considered to be a major element of in-vivo research. This study helps in observing the overall effects of an experiment. The bioavailability study is performed to characterize the plasma concentration versus time profile. CPOP tablet on the principle of osmotic releasing drug at zero order kinetics as better control over drugs. In vivo performance in possible releasing the drug after an initial lag. The zero order kinetics drug and osmotic in osmotic kinetics with other osmotic. The surface morphology of coating membrane of the optimized formulation was examined by using Scanning Electron Microscopy (SEM) before and after dissolution. It was observed osmotic pores were formed after dissolution.

Keywords: Atenolol, Dissolvability, In vivo, Pharmacokinetics, SEM, Atenolol AAX.

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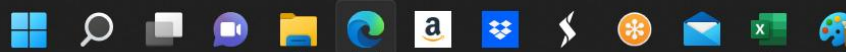
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A REVIEW ON CONTROLLED POROSITY OSMOTIC PUMP DRUG DELIVERY SYSTEM & TREATING HYPERTENSION WITH BETA BLOCKERS

Ayesha Sultana*1 & D. Varun2

A significant milestone in oral NDDS is osmotic drug delivery system. Osmotic system releases a drug at a predetermined zero order delivery rate based on osmosis. The osmotic pressure is a colligative property of a solution in which the magnitude of osmotic pressure of the solution is independent on the number of discrete entities of solute present in the solution. The release rate depends on solubility, molecular weight and activity coefficient of the solute i.e osmogens. Elevated BP is an extremely common disorder affecting millions of people world wide. In most cases rise in B.P is due to increase in total peripheral resistance while cardiac output and heart rate are not high. The beta blockers are used individually or a combination therapy to treat hypertension. The development of oral osmotic systems has a strong and good market potential and it is clear from the marketed products and number of patents granted in the last few years. Beta blockers continue to be first choice drugs recommended by JNC VI & WHO-ISH. Hypertension is termed as 'Silent killer' as its symptoms are invisible many times, long term hypertension causes atherosclerosis, strokes, aneurysm, retinopathy in eyes and amputation of the parts. At this time focus was on developing zero order delivery system. Zero order kinetics would be superior as they maintain steady drug concentration in blood in treating hypertension effectively.

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DOI 10.5281/zenodo.1209210

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PREVENTION OF NEPHROTOXICITY BY CURCUMIN IN CHEMICALLY INDUCED OSTEOARTHRITIS

Nasreen Sulthana¹ and K.Vijaya²


¹Research Scholar, Faculty of Pharmacy, Pacific Academy of Higher Education and Research, Udaipur, Rajasthan.

²Principal, TKR College of Pharmacy, Meerpet, Hyderabad, Telangana.

Abstract:
Osteoarthritis is a degenerative disorder resulting in degeneration of cartilage and osteophytes formation. Non steroidal anti inflammatory drugs are commonly used drugs to alleviate the pain in most of the chronic inflammatory conditions like osteoarthritis. These drugs alleviate the pain by inhibiting the synthesis of prostaglandins. Although these drugs reduce the pain, they have several limitations as they cause nephrotoxicity. In recent years several works have been carried out to improve the therapeutic strategy in osteoarthritis. The present study was carried out to investigate the role of curcumin in osteoarthritis when it is used as an adjuvant to Diclofenac sodium. Osteoarthritis was induced by administering sodium acetate. Animals were divided into 5 groups and were treated accordingly. Group I was considered as control, group II animals were disease control i.e they were induced with osteoarthritis and were given no treatment. Group III animals were induced with Osteoarthritis and were treated with diclofenac sodium. Group IV animals were induced with osteoarthritis and were treated with the combination of diclofenac sodium and curcumin. Group V animals were pre-treated with curcumin and then induced with osteoarthritis. Parameters like Serum creatinine levels, serum uric acid levels, serum potassium levels, serum ALP levels, blood urea nitrogen (BUN), urine potassium, urine creatinine, urine output, kidney weight were estimated. Histopathological studies were also carried out. Animals treated with curcumin along with the standard drug or animals with pre-treated curcumin have shown fewer incidences of nephrotoxicity. Histopathology also supports low incidence of nephrotoxicity in those animals. It demonstrates that curcumin when used along with the conventional NSAIDs as an adjuvant therapy has a role in treating osteoarthritis effectively.


Key words: Osteoarthritis, nephrotoxicity, nonsteroidal anti inflammatory drugs, curcumin and prostaglandins.

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Please cite this article in press Nasreen Sulthana and K.Vijaya. Prevention of Nephrotoxicity by Curcumin in Chemically Induced Osteoarthritis, Indo Am. J. P. Sci. 2018; 05(03).

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P. Sravan Kumar , *, A. Santhosh , K. Manasa , M. Swapna , M. Sreevani , M. Bhavusingh , M. Mamatha

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2. FORMULATION AND EVALUATION OF ORAL HERBAL TABLETS CONTAINING METHANOLIC EXTRACT OF ALTERNANTHERA PUNGENS WITH CYTOTOXIC ACTIVITY

R. Shyamsunder , G. Kalpana , K. Bhavanasindhu *

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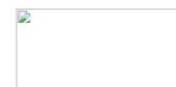
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Research Article

IN-VITRO ANTHELMINTHIC ACTIVITY, PHYTOCHEMICAL SCREENING AND TLC STUDIES OF ETHANOL-WATER EXTRACTION ON *IPOMEA CARNEA* FLOWER USING IN - STATE FESTIVAL OF TELANGANA (BATHUKAMMA)

P. Sravan Kumar ^{1*}, A. Santhosh ², K. Manasa, M. Swapna ², M. Sreevani ², M. Bharavasingh ², M. Mamatha ²

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Received on: 29-03-2018; Revised and Accepted on: 21-04-2018

ABSTRACT

India Being a Rich and Varied Flora of Medicinal Plants, It's used in Traditional Festivals of India. The Present Study deals with the In-Vitro Anthelmintic Activity, Phytochemical Screening and TLC Studies of Ethanol-Water (80:20) Extraction on Ipomea Carnea Flower using in - State Festival of Telangana (Bathukamma). Ethanol-Water (80:20) Extraction on Ipomea Carnea Flower was used evaluation of Phytochemical Screening Determination by some chemical tests and Thin Layer Chromatographic Study was carried out by using Various Solvent System of varying Polarity of Hexane, Ethyl Acetate, Acetone. Phytochemical Screening Reflects Presence of the Carbohydrates, Alkaloids, Phenols, Tannins, Phytosterols, Glycosides, Flavonoids, Tannins Shows Methanol Solvents Extracts, Thin Layer Chromatographic Studies of the Ipomea Carnea Flower Parts Constituted Different Colored Phytochemical Compounds with different R_f Values. Ethanol-Water (80:20) Extractions of Ipomea Carnea Flower Various Concentrations (25, 50, 100mg/ml) of oil Extracts were Tested and Results were Expressed in Terms of time for Paralysis and time for Death of Worms. Piperazine Citrate (10 mg/ml) was used as a Reference Standard and Distilled Water as a Control Group. Treatment with Concluded that the Ethanol-Water (80:20) Extract of Ipomea Carnea Flowers showed Potent Anthelmintic Activity and was Equivalent to Standard Anthelmintic drug. The Potent Anthelmintic Activity could be due to Presence of Glycosides, Flavonoids and Sterols. So, from the above Findings, it was Concluded that Ethanol-Water (80:20) Extract of Ipomea Carnea Flowers Posses's Significant Wormicide Activity Property.

KEYWORDS: Ipomea Carnea, Anthelmintic, Phytochemicals, TLC Profile.

INTRODUCTION

Herbal medicines have recently attracted much attention as alternative medicines useful for treating or prevent in life style related disorders and relatively very little knowledge is available about their mode of action. There has been a growing interest in the analysis of plant products which has stimulated intense research on their potential health benefits⁽¹⁾.

The earth is created with many incredible things which are supporting the life of human beings; we found our life in the nature which gives everything we want like water, food, and shelter etc. and everyone pray for these things to remain forever with us. This nature looks more beautiful with different flowers, each flower has a unique fragrance which attracts everyone and these flowers were used for celebrations and other occasions, we also see various plants in the nature and each plant has its own importance⁽²⁾.

Grate India is known for its traditions and celebrations of festivals. Every festival has a scientific reason to support its celebration.

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In this regard, present study is planned to evaluate pharmacological activity of flowers used in bathukamma festival which has been recently declared as state festival of newly formed telangana state⁽³⁾. It is a floral festival in which every day various colored flowers are arranged row after row in a brass plate, called as bathukamma, placed in front of deity and daily worshipped for a week. In the evening it is carried to nearby pond or any water body and released in it.

Helminthes parasite infections are global problems. The diseases affect the health status of a large fraction of the human population as well as animals. Some type of dangerous helminthes infections like filariasis has only a few therapeutic modalities at present⁽⁴⁾. In addition, after treatment with albendazole or mebendazole, several side effects⁽⁵⁾. Helminths are the most common infectious agents of humans and produce a global burden of disease and contribute to the prevalence of malnutrition, anaemia, eosinophilia, and pneumonia. The disease is highly prevalent particularly in poor countries. Plant derived drug serve as a prototype to develop more effective and less toxic medicines⁽⁶⁻⁸⁾.

In India many times used in traditional medicine system. It is a common weed throughout india and used in traditional medicine for ipomea carnea flower is most important flower used in this festival. It is commonly known pink morning glory. It is a species of morning glory, bercharam in hindi, thatta kada in telugu, morning glory flowers are also known as ipomea, it is belongs to family convolvulaceae⁽⁹⁾.

The recent studies displayed that ipomea carnea possessed a wide range of therapeutic activities which were proved that this plant have a potential regenerative capacity of various cells, glycosidase inhibitory activities, anti-inflammatory activity, antioxidant activity, wound healing activity, antidiabetic activity, immunomodulatory


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Biomedicine & Pharmacotherapy
Volume 101, May 2018, Pages 174-180

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Ajay Godwin Potnuri^a, Lingesh Allakonda^b, Mangala Lahkar^c

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Abstract

Chemotherapy induced testicular toxicity is an emerging reason for azoospermia and impotency in males. Cyclophosphamide (CP) is a widely used chemotherapeutic agent to manage neoplastic and non-neoplastic autoimmune diseases. Testicular toxicity along with bladder and hepatotoxicity are its widely reported adverse effects. Crocin (CR) is the digentiobiosyl ester of crocetin, found in the fruits of *Gardenia* (*Gardenia jasminoides* E.) and dried stigmas of saffron (*Crocus sativus* L.) possess antioxidant, anti-depressant, anti-tumor and aphrodisiac properties. In the light of these reports, the present study aimed to investigate protective effect of CR administration (10 mg/kg and 20 mg/kg per day for eight weeks) on CP induced (15 mg/kg per week for eight weeks) testicular toxicity in male Sprague dawley rats by analysing the Glutathione redox cycle, Sperm quality, spermatogenic and steroidogenesis hormonal axis, caspase 3 activity and histological investigations. Administration of CR preserved the glutathione redox cycle, sperm quality, hormonal mediators associated with sperm production. It also decreased testicular apoptosis as evident from the reduction of caspase 3 activity. These biochemical findings were well reflected on the histo-pathological investigation. Conclusively, the results of this study indicate that administration of CR can dose dependently attenuate the toxic effects of CP on testis.

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Doxorubicin (DOX), an anthracycline-based antibiotic, is regularly used in the management of carcinomas, and haematological malignancies have been downplayed in chemotherapy because of its ability to induce dilated cardiomyopathy (DCM). Dexrazoxane is approved to combat the cardiotoxicity, but limited by its adverse effects. Redox imbalance and reactive oxygen species generation plays major role in DOX-induced cardiotoxicity. Histamine, known to mediate various cardiovascular effects, but nevertheless the role of histamine or its receptors in DOX-induced DCM is remained obscure. Hence, this study is aimed to examine the effect of Famotidine (FAM), a H₂ receptor antagonist on DOX-induced DCM in Wistar rats. Myocardial antioxidant status, stress and apoptosis markers, myocardial morphology and function were evaluated as the end points. Treatment with FAM has alleviated DOX doxorubicin-induced cardiotoxicity by reducing oxidative and nitrosative stress evident from lipid peroxidation and total nitrate-to-nitrite ratio, and enhanced the activity of super oxide dismutase. Cardiac stress markers like LDH and Na⁺-K⁺-ATPase activities as well as CK-MB and Cardiac troponin levels were reduced by FAM treatment. It also normalised the myocardial function as assessed by 2D echocardiography and myocardial index. Treatment imparted anti-apoptotic effect as evident from decrease in myocardial caspase 3 and 9 activity and cleaved PARP expression. Effect of FAM is found to be comparable to the standard ACE inhibitor Captopril (CAP). The results from this study collectively suggest H₂ receptor

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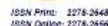
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Design formulation and evaluation of gastroretentive floating tablets of stavudine

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*Corresponding author: Henry Aducci

ABSTRACT

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INTRODUCTION

Oral drug delivery is the most widely utilized route of administration among all the routes that have been explored for systemic delivery of drugs. As pharmaceutical products of different dosage forms, oral route is considered most efficient, economical, convenient and safe due to its ease of administration.

portant acceptance and cost effective manufacturing process [1].

Oral delivery continues to be the most popular route of administration due to its versatility, ease of administration and probably most importantly patient compliance [23]. Oral controlled release drug delivery have recently been of increasing interest in pharmaceutical field to achieve improved therapeutic

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advantages, such as ease of dosage administration, patient compliance and dosability in formulation. Drugs with these qualities and drugs that only showed slow gastrointestinal tract (GIT) absorption were administered orally. The GIT is an alternative route to the parenteral circulation. For these types of drugs the development of an oral sustained-controlled release formulation is an alternative to release the drug slowly into the gastrointestinal tract (GIT) and maintain an effective drug concentration in the systemic circulation for a long time. The oral administration of a drug is believed to be suitable for the research and industrial development of a sustained release formulation of the drug in a controlled manner, so that the drug could be accepted conveniently in an acceptance office in the gastrointestinal tract (GIT) [4]. But oral sustained drug delivery formulation that varies liberations controlled with the gastric emptying time, gastric and the rapid gastrointestinal transit could reveal an acceptance drug release from the device into the circulation, which could be classified as follows:

adverse systems, evolving and expanding systems, high density systems, modified systems.

Floating Drug Delivery Systems (FDDs)
 have a bulk density lower than gastric fluids and thus remain buoyant in the stomach for a prolonged period of time, without affecting the gastric emptying rate. While the system is floating on the gastric contents, the drug is released slowly at a desired rate from the system. After the release of the drug, the residual system is sequestered from the stomach. This results in an increase in the GIT and a better control of diuretics in the plasma drug concentrations.

However, besides a minimal gastric content needed to allow the proper achievement of the buoyancy retention principle, a minimal level of floating force (F) is also required to keep the device free, safely, buoyant on the surface of the sea. Many buoyant systems have been developed based on granules, needles, capsules, tablets, laminated

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Formulation Development and *In vitro* Evaluation of Transdermal Patches of Tramadol HCl

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Online published on 24 October, 2018.

Abstract

In the present research work an attempt was made to prepare and evaluate the transdermal patches of Tramadol HCl, a centrally acting opioid analgesic drug. Formulations were made by using different ratios of rate controlling polymers like Eudragit RL100, hydroxyl propyl methyl cellulose 6 cps and ethyl cellulose. Poly ethylene glycol 400 is used as plasticizer and Tween 80 as penetration enhancer. The patches were prepared by solvent evaporation technique using liquid paraffin as lubricant. The study examines the influence of polymers ratio on physicochemical properties and drug release potential of transdermal films. In the pre formulation studies, solubility, partition coefficient and melting point were determined to assess its application for transdermal delivery. The FTIR studies confirmed that there is no incompatibility present between drug and excipients. The patches were evaluated for their appearance, weight uniformity, and thickness uniformity, drug content uniformity, folding endurance, invitro diffusion and stability studies. Based on the evaluation studies F10 formulation was optimised. The drug release was extended for 12 hrs showing drug release of 94.19%. The release kinetics data for optimised formulation has revealed that the patch is best fit in to higuchi model with fickian type of diffusion. The optimised formulation was subjected to accelerated stability studies for 6 months and the results found to be stable with respect to drug content, drug release as well as physical changes.

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Prevention of Adriamycin induced cardiotoxicity in rats – A comparative study with subacute angiotensin-converting enzyme inhibitor and nonselective beta blocker therapy

Ajay Godwin Potnuri ^{a,1}, Sundar Kumar Kondru ^{a,1}, Pavan Kumar Samudrala ^{a,1}, Lingesh Allakonda ^{a,2,3}

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ARTICLE INFO

Article history:
Received 4 August 2016
Received in revised form 26 December 2016
Accepted 1 January 2017
Available online 11 January 2017

Keywords:
Adriamycin
Cardiotoxicity
Captopril
Carvedilol

ABSTRACT

Each patient: Cardiotoxicity continues the major Adverse Drug Reaction (ADR) in clinical practice as it can develop cardiac impairment up to 10 years after the termination of therapy. Although, no specific therapeutic strategies are available for treating adverse effects induced by Adriamycin, beta-adrenergic blockers (BB) and angiotensin-converting enzyme (ACE) inhibitors are known to prevent its cardiotoxicity. In the present study, we attempted to compare the pharmacological outcomes of subacute BB and ACE inhibitor treatments in preventing adriamycin-induced cardiotoxicity by analyzing the differences between them.

Methods: Subacute doses of Adriamycin (10 mg/kg) on day one and treated with either Captopril (10 mg/kg) (CAP) or Carvedilol (10 mg/kg) (CAR) once daily for 20 days. Cardiac morphology, systolic and diastolic functions were evaluated by 2D strain-Doppler echocardiography. Cardiac, TGF- α and BNP levels were measured to analyze the response during Myocardial infarction (MI) levels and capillary function were evaluated as the markers of oxidative stress, inflammation and apoptosis respectively.

Results: Both treatments had reduced the adriamycin induced cardiotoxicity. Whereas CAP treatment showed a better reduction in inflammation, superior preservation of protein and lactate dehydrogenase and improved improvement in oxidative stress markers and BNP. Cardiac morphology, systolic activity and reduction of response damage were better recovered with CAP treatment while after parameters were found to be clinically attenuated.

Conclusion: The present study found that chemical therapeutic outcome from ACE inhibitors and BB blockade with a better alternative of inflammation and contract preservation with ACE inhibitors and superior antioxidant and angiogenic effect with BB treatment.

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1. Introduction

Adriamycin (ADR) is an anthracycline based antineoplastic agent which is used in the treatment of leukaemia, lymphoma, carcinoma and soft tissue sarcoma either alone or in combination with other chemotherapy regimens [1]. The cytotoxic effects of ADR are mediated by DNA intercalation and inhibition of the progression of the topoisomerase II, thereby releasing the DNA supercoils preventing the transcription [2]. Common adverse effects of ADR include myelosuppression, oral

maculitis, oesophagitis, hand-foot syndrome and liver dysfunction. The potent and life-threatening adverse effect of ADR is cardiomyopathy induced heart failure with a rate of incidence about 4% with a dose of 900–550 mg/m², 10% with a dose of 551–900 mg/m² and 30% with a dose more than 900 mg/m² [3].

The mechanisms of ADR induced cardiomyopathy are not fully understood, but evidences indicate the involvement of oxidative stress and cardiac inflammation leading to apoptosis mediated structural deterioration and its transition into failure [4,5]. Free radical generation by ADR in mitochondrial dependent and independent manner induces oxidative stress in the myocardium [6–8]. Treatment with various antioxidants has shown a promising recovery from the ADR induced cardiotoxicity in pre-clinical models [9,10]. But the clinical studies on utility of antioxidants in ADR cardiotoxicity, showed an inconsistent results due to multiple issues like bioavailability of the antioxidant, timing of therapy, type and degree of malignancy and other combination

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Original article

Syk – GTP RAC-1 mediated immune-stimulatory effect of *Cuscuta epithymum*, *Ipomoea batata* and *Euphorbia hirta* plant extracts

Vanitha Sagar Sudam ^b, Ajay Godwin Potnuri ^c, N.J. Prameela Subhashini ^a  

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Current Issue Volume 10, Issue 1, 2022

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Original Article

Liposome's: Microscopic Vesicles Formulated Using Diclofenac Sodium


K Ajith*, P Hyma, Anu Tumma

Department of Pharmaceutics, St Paul's College of Pharmacy, Telangana, India

ARTICLE INFO

Received: 27 Mar 2017
Accepted: 15 Apr 2017

CODEN (IJPHRS), e-ISSN: 2248-4445



ABSTRACT

The present research deals with liposome are formulated with diclofenac sodium. Liposome are sphere shaped vesicles containing one or more phospholipids bilayer, these are usually used to maintain drugs from any concentrations at target sites for longer period of time (sustained effect) & even increase the bioavailability of the drug. The main reason to formulate diclofenac sodium into liposome is that diclofenac has a plasma t_{1/2} of 2-3 hours and there is a need for patients to administer the drug 2-3 times a day to prevent the desired effect. We have prepared liposomes using this film hydration technique & different excipients like cholesterol, soya lecithin were used. When they were formulated as liposome it showed sustained effect when evaluated in vivo. The different evaluation studies like particle size determination, vesicular entrapment, drug release profile, SEM studies and FTIR spectrum studies were done in this research & these tests were used as parameters to determine the optimized formulation and even the sustained release effect of the system.

Keywords: Diapers, Biocompatibility, Cholesterol, Liposome's, Sustained effect, Soya lecithin, film hydration technique.

1. INTRODUCTION

Drug delivery systems are the means that carry drug to the desired parts of the body. Phospho-lipid vesicles (Liposome's) were first discovered decades ago by Bangham. The hydration of the dry lipid film was found to lead to the formation of the enclosed spherical vesicles, which resemble to the cellular organelles with lipid layer. Oral administration of drugs is central in the development of pharmaceutical research due to its extensive application to most patients. With the aim to improve the oral bioavailability several strategies have been proposed to

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reduce dosing frequency and/or gastrointestinal side effects of many drugs. A tremendous amount of work has been done to formulate drugs in sustained and controlled release dosage forms for oral and parenteral administration.

2. MATERIALS AND METHODS

Materials: The materials like diclofenac sodium, cholesterol & soya lecithin were purchased from M.H. Enterprise and all other chemicals were of analytical grade.

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CONTROLLED POROSITY OSMOTIC PUMP (CPOP) -THE MOST PROMISING STRATEGY BASED SYSTEM REVIEW.

Ayesha Sultan^{1*} and D. Varun²

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Article Received on: 24 Oct. 2016.
Revised on 14 Nov. 2016.
Accepted on 04 Dec. 2016
DOI: 10.26907/2278-4357.201701-0308

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Department of Pharmaceutics, Guru Nanak Institutions Technical Campus- School of Pharmacy, Khanapur, Ibrahimpatnam, Hyderabad, R.R District-501506.

ABSTRACT
Controlled drug delivery system has evolved over the last six decades, the second generation 1980-2010 progressed with the development of zero order release systems. The CPOP is extension of Elementary osmotic pumps a new innovation in oral controlled plasma drug delivery avoiding fluctuations in drug concentration offering better drug utilization and patient compliance. Osmotic systems release drugs at constant rate which is reliable. CPOP is sponge like in appearance, the drug after dissolution is released from the core by hydrostatic pressure and diffusion through pores created by dissolution of pore formers in membrane. The hydrostatic pressure is created either by osmotic agent or by drug or a tablet component after water is imbibed across the semi permeable membrane, the membrane after formation of pores is permeable to both water and solutes. This delivery system gained wider acceptance as the drug released is independent of pH, physiological conditions of GIT and spatial controlled pattern over long period of time by osmosis maintaining uniform blood concentration which is important for treatment of various chronic diseases.

KEYWORDS: Controlled drug delivery, Hydrostatic Pressure, Osmotic agent, Osmosis, Semi Permeable Membrane, zero order.

INTRODUCTION
It is the most promising strategy based delivery system for controlled drug delivery. In NDDS system an existing molecule can get a new life increasing competitiveness, good

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Abstract: The research reveals that Dopamine blocks the formation of blood vessels in tumors by inhibiting the action of vascular endothelial factor and prevents the side effects associated with currently used chemotherapeutic agents. The aim of this work is to show the role of Dopamine as safe anti angiogenic agent, treating and enhancing Dopamine naturally by the tablets prepared from the powdered seed extracts of Mucuna pruriens by Wet granulation method. The tablets prepared were evaluated for pre and post compression parameters and they were within permissible limits as per the standards. Experiments were carried out in mice and were divided into four groups. Group A-Control group, Group B-Disease induced (tumor) but no treatment, Group C-Disease induced and treatment by Standard I. V dose of Dopamine, Group D-Disease induced, it is treated with test dose of tablets of Mucuna pruriens. The tumors were induced by Benzopyrene, formation of tumors were confirmed by checking the parameters of electrolyte levels, haematology values and liver function test. The mice treated with standard dose exhibited weight gain because of retention of urine which leads to accumulation of Uric acid. Swelling and Pain is also observed at the site of injection. Mice treated with test dose showed no side effects, as Mucuna pruriens contains L-Dopa which readily crosses Blood Brain Barrier enhances Dopamine levels naturally, significantly in very economical and easy approach. The In vitro release of formulation (F3) showed 92 % drug release.


Keywords: Benzopyrene, Dopamine, Vascular Endothelial Factor, Mucuna pruriens

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SCREENING OF DAMASK ROSE ESSENTIAL OIL IN WISTAR ALBINO RATS FOR ANTIULCER ACTIVITY

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Article Received on 27/07/2016 Article Revised on 17/08/2016 Article Accepted on 07/09/2016

ABSTRACT
Introduction: Gastric ulcer is one of the most prevalent gastrointestinal disorders, which affects approximately 5-10% of population in their life time. In recent years; abundant work has been carried out on herbal medicine to clarify their potential efficacy in gastric ulcer prevention or management. **Objectives:** The present study was carried out to investigate antiulcer activity of *Rosa damascena mill* belonging to family Rosaceae in the albino rats. **Methods:** Pyloric ligation and alcohol induced ulceration methods were used. Ranitidine (20mg/kg) was used as the standard drug. Rose oil was preliminary subjected to the acute oral toxicity study according to OECD guidelines no: 423 based on which, two dose levels i.e. 250 and 500 mg/kg were selected for the further study. In pylorus ligation induced ulcer model, various parameters were studied viz. gastric volume, total acidity, free acidity and ulcer index. Ulcer index and percentage inhibition of ulceration were determined by alcohol induced ulcer model. **Results:** Rose oil at 500mg/kg shown 68.36% inhibition in alcohol induced ulcer model and 56.5 % in pyloric ligation induced ulcer model. **Conclusions** In conclusion, rose oil tested in this investigation deserves further attention due to its importance in prevention and treatment of gastric ulcers. Further molecular level studies are to be done for knowing its exact mechanism of action.

KEYWORDS: *Rosa damascene*, Ulceration, Ligation, Phytochemicals.

INTRODUCTION
Peptic ulcer therapy has undergone many studies over past few years and a number of synthetic drugs are now available for treatment. Reports on clinical evaluation of these drugs show that there are incidences of relapses and several adverse effects and danger of drug interaction during therapy.^[1,2] The development of new antiulcer drug from medicinal plants is an attractive proposition because diverse chemical compounds have been isolated from different medicinal plants with antiulcer activity^[3] and have been shown to produce promising results in the treatment of gastric ulcers.^[4] The bioactive molecules (generally alkaloids, glycosides, essential oils etc.) are isolated/extracted from crude drugs may be used directly as therapeutic agents or as starting materials for the synthesis of useful drugs or serve as a model for pharmacologically active compounds in the period of drugs in synthesis.^[5]

MATERIALS AND METHODS
DRUGS AND REAGENTS
The chemicals used in the present study were analytical grade Ethanol (90%), Anesthetic ether, Sodium hydroxide, Phenolphthalein indicator, Toppers' reagent, Spirit, Ranitidine, Povidone powder from.

EXPERIMENTAL ANIMALS
Albino Wistar strain rats (either sex) weighing 100-150gms were used. The animals were maintained in well-ventilated room temperature with 12/12 natural day-night cycle, in polypropylene cages. They were fed balanced rodent pellet diet obtained from Mahaveera enterprises, Ghatkesar and tap water throughout the experimental period. The animals were housed for one week prior to the experiments to acclimatize to laboratory conditions.

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International Journal of Current Research
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RESEARCH ARTICLE

PROBIOTICS AS A POTENTIAL ADJUVANT THERAPY FOR THE TREATMENT OF COLORECTAL CANCER

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ARTICLE INFO

Article History:
Received 07th February, 2022
Revised to second date:
21st March, 2022
Accepted 22nd April, 2022
Published online 11th May, 2022

Key words:
Colorectal cancer,
Probiotics,
5-Fluorouracil,
Chemotherapy,
Hemoglobin.

ABSTRACT
Colorectal cancer (CRC), also known as colon cancer or bowel cancer is a cancer resulting from uncontrolled cell proliferation or growth in the colon or rectum or in the appendix. 5-Fluorouracil (5-FU) and Oxaliplatin are most frequently prescribed drugs for treatment of CRC. But many side effects like nausea, diarrhea, mouth sores, vomiting, numbness, hand foot syndrome, fatigue, and myelosuppression, anaphylactic reactions are the problems with chemotherapy. Probiotics are bacterial cultures comprising of potentially beneficial bacteria or yeast, administered in adequate amounts confer a health benefit on the host. Lactic acid bacteria (LAB) are the most common microbes used. Probiotics are non-digestible fibre compounds that act as substrate for the probiotics and stimulates the growth of useful bacteria through intestine and probiotics. The ingestion of probiotics, prebiotics or combination of both (synbiotics) represents a novel new therapeutic option. Probiotics and prebiotics act to alter the intestinal microflora by increasing concentrations of beneficial bacteria such as *Lactobacillus* and *Bifidobacterium*, and reducing the levels of pathogenic micro-organisms. This strategy has the potential to inhibit the development and progression of neoplasia via mechanisms including decreased intestinal inflammation, enhanced immune function and anti-tumorigenic activity, binding to potential food carcinogens including toxins found in meat products, and a reduction in bacterial enzymes which hydrolyse carcinogenic compounds, such as heterocyclic amines. The present review is an attempt to explore the role of combination of probiotics with the drugs to observe the efficacy profile of the drugs in the management of CRC.

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Citation: Nasreen Sulthana and Vijay R. Chidrawar. 2022. "Probiotics as a potential adjuvant therapy for the treatment of colorectal cancer", International Journal of Current Research, 8, (05), 15020-15025.

INTRODUCTION
Cancer can be defined as a disease in which a group of abnormal cells grow uncontrollably by disregarding the normal rules of cell division. Normal cells are constantly subjected to signals that dictate whether the cell should divide, differentiate into another cell or die. Cancer cells develop a degree of autonomy from these signals, resulting in uncontrolled growth and proliferation. If this proliferation is allowed to continue and spread, it can be fatal. In fact, almost 90% of cancer-related deaths are due to tumor metastasis-a process called metastasis. Colorectal cancer (CRC), commonly known as colon cancer or bowel cancer, is a cancerous uncontrolled cell growth in the colon or rectum (parts of the large intestine), or in the appendix.

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