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INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

CHOLELITHIASIS -CASE REPORT

Taduka Taruni[1*], Dr. A Srinivasa Rao[1], Dr. AV Kishore Babu[1], L. Anjali[2], P. Divyani[2]

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ABSTRACT: A 45-year-old female patient was admitted in the Gastroenterology ward, with chief complaints of pain in the lower abdomen since, 1 week. The pain is sudden in onset and increase in severity, dragging in nature. No aggravating factors. Relived on medication. No H/O burning micturition, loose stools. And has no similar history in the past. On evaluation it is shown to be the condition of cholelithiasis.

KEYWORDS - Gallstones, Cholecystectomy -

OBJECTIVE -To discuss the aetiology that can result in cholelithiasis in the patient; To evaluate the physical findings, laboratory test and diagnostic imaging tests in the patient. To review the various treatment options for the patient with cholelithiasis

INTRODUTION:

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High Technology Letters ISSN NO : 1006-6748

ANTIDIABETIC ACTIVITY AND PHYTOCHEMICAL SCREENING OF LEAVES EXTRACT OF DIOSPYROS PEREGRINE IN ALLOXAN-INDUCED DIABETIC RATS

K. P. Chandralekha[1*], Dr.M.Sri Ramachandra[1], Dr.A.Srinivasa Rao[1]

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ABSTRACT

Diabetes mellitus is a most common endocrine disorder, affecting more than 300 million people worldwide. For these therapies developed along the principles of allopathic are often limited in efficacy. Carry the risk of adverse effects, and are often too costly, especially for the developing world. In order to identify complementary or alternative approaches to existing medications, we studied the anti-diabetic potential of leaves of

Page 1 / 19

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Original Article

Evaluation And Characterization Of Bioadhesive Drug Delivery Systems

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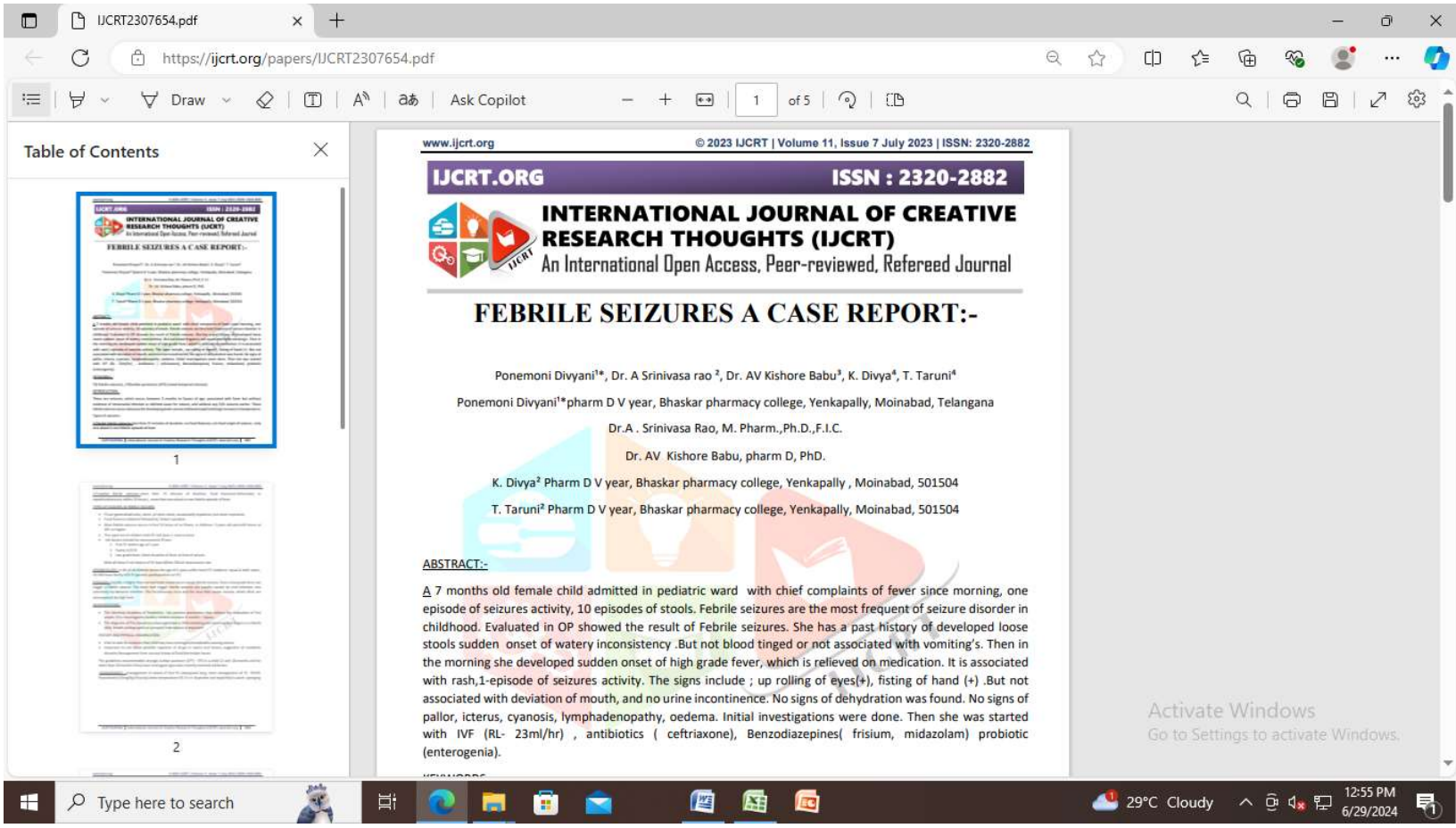

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Table of Contents

1

2

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FEBRILE SEIZURES A CASE REPORT:-

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ABSTRACT:-

A 7 months old female child admitted in pediatric ward with chief complaints of fever since morning, one episode of seizures activity, 10 episodes of stools. Febrile seizures are the most frequent of seizure disorder in childhood. Evaluated in OP showed the result of Febrile seizures. She has a past history of developed loose stools sudden onset of watery inconsistency .But not blood tinged or not associated with vomiting's. Then in the morning she developed sudden onset of high grade fever, which is relieved on medication. It is associated with rash,1-episode of seizures activity. The signs include ; up rolling of eyes(+), fisting of hand (+) .But not associated with deviation of mouth, and no urine incontinence. No signs of dehydration was found. No signs of pallor, icterus, cyanosis, lymphadenopathy, oedema. Initial investigations were done. Then she was started with IVF (RL- 23ml/hr) , antibiotics (ceftriaxone), Benzodiazepines(frisium, midazolam) probiotic (enterogenia).

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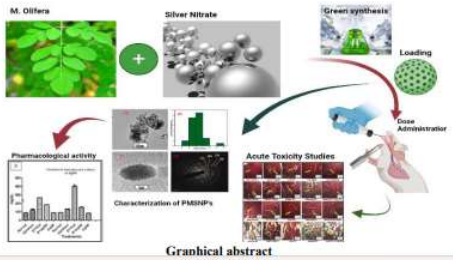
DEVELOPMENT OF PLANT-MEDIATED SILVER NANOPARTICLES& THEIR PHARMACOLOGICAL EVALUATION

Geetha P[1], Navanita S K[2], Ganesh Kumar Y[3], Hemanth Kumar Boyina[4], Vinod Kumar Reddy Bondu[5], Bala Gurivi Reddy Vemireddy[6], Mohd Abdul Hadi[7], Kalakotla Shanker[8]*

Abstract:

Diabetes is among the most common debilitating and non-transferable diseases on the planet. The idea of using nanoparticles as a drug to treat diabetes mellitus seems intriguing. The Ag nanoparticles (Ag NPs) were effectively produced utilizing *Moringa olifera* (family: *Moringaceae*) plant extract employing a simple, cheaper, faster, and environmentally friendly green synthesis process. The antidiabetic effect of the produced Ag NPs was also tested in vivo. In the presence of plant extract, silver nitrate was converted to silver ions (Ag). XRD, FTIR, UV, XPS, and HRTEM studies characterize the formed Ag NPs. Ag NPs that have been biosynthesized, crystal nature was confirmed through XRD analysis and confirmed by UV-visible spectroscopy. FT-IR spectra were used to verify the presence of various functional groups in the biomolecules, forming and stabilizing the nanoparticles. The size of the NPS was in the range of 20-40 nm determined by HRTEM. The induction of diabetes using STZ showed increased blood glucose, cholesterol, triglycerides, LDL, VLDL, massive loss in body weight. These changes were reversed following the treatment of diabetic rats for 28 days and showed significant inhibition ($p < 0.001$) at a dose range of 0.2 mg/kg leaf extract and 0.2 mg/kg Ag NPs compared with the extract-treated group. These obtained results suggested that plant-mediated Ag NPs have shown promising antidiabetic and anti-hyperlipidemic activity compared to the crude extract.



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Latest drug developments in the field of Internal medicine: Cardiology, Heart failure, Diabetes, and Inflammation

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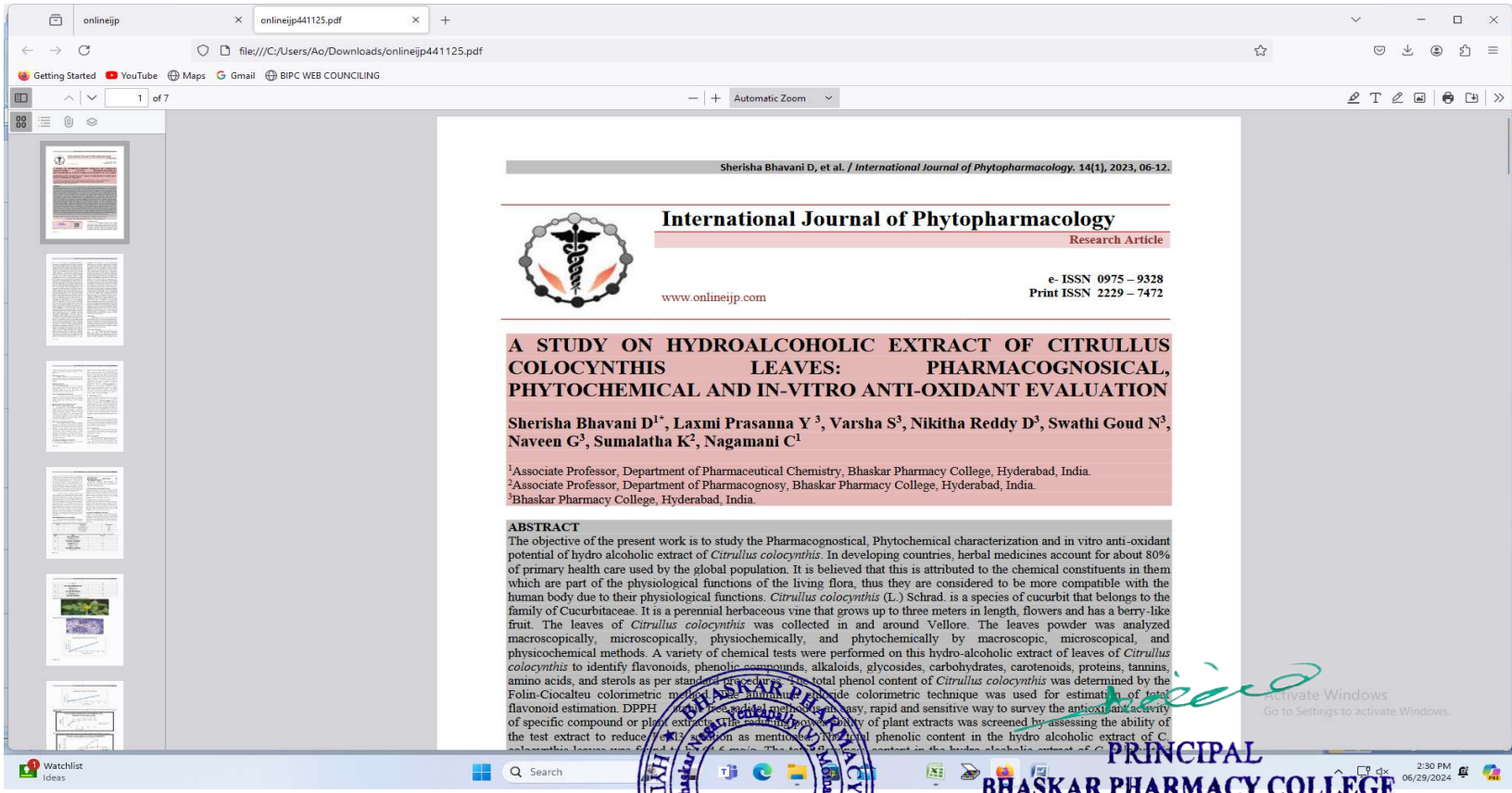

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Journal of Clinical Otorhinolaryngology, Head, and Neck Surgery

MALDI-TOF HR-MS TECHNIQUES FOR FRAGMENTATION ANALYSIS OF NOVEL POLYCYCLIC MICROTUBULE DISASSEMBLY INHIBITOR DRUG MOLECULES

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Abstract— Since 2010, matrix-assisted laser desorption ionisation time-of-flight mass spectrometry (MALDI-TOF MS) has been used in healthcare settings. Over the traditional method of biochemical identification, MALDI-TOF MS has a number of advantages, including simplicity, speed, precision, and affordability. Numerous challenges to detecting bacteria

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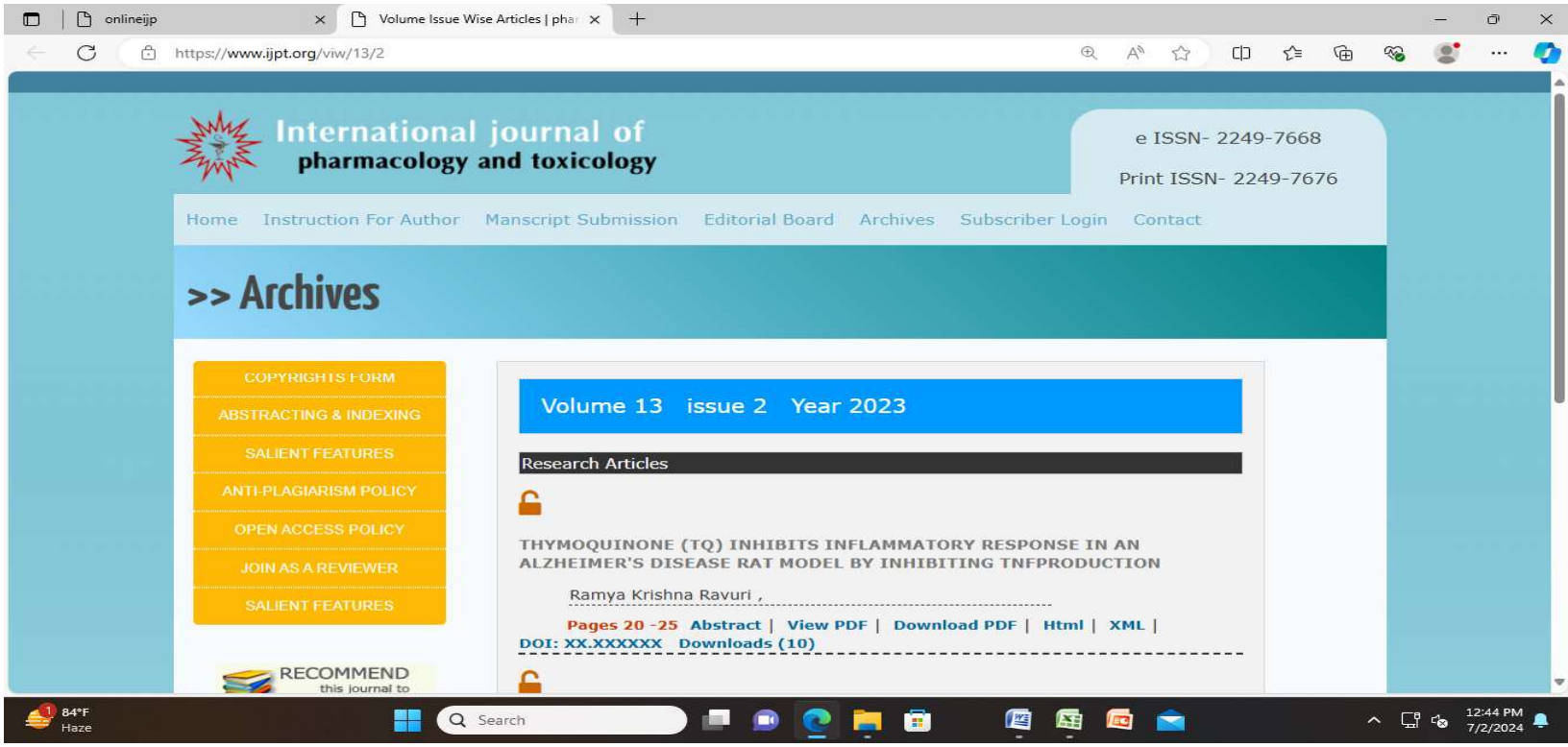

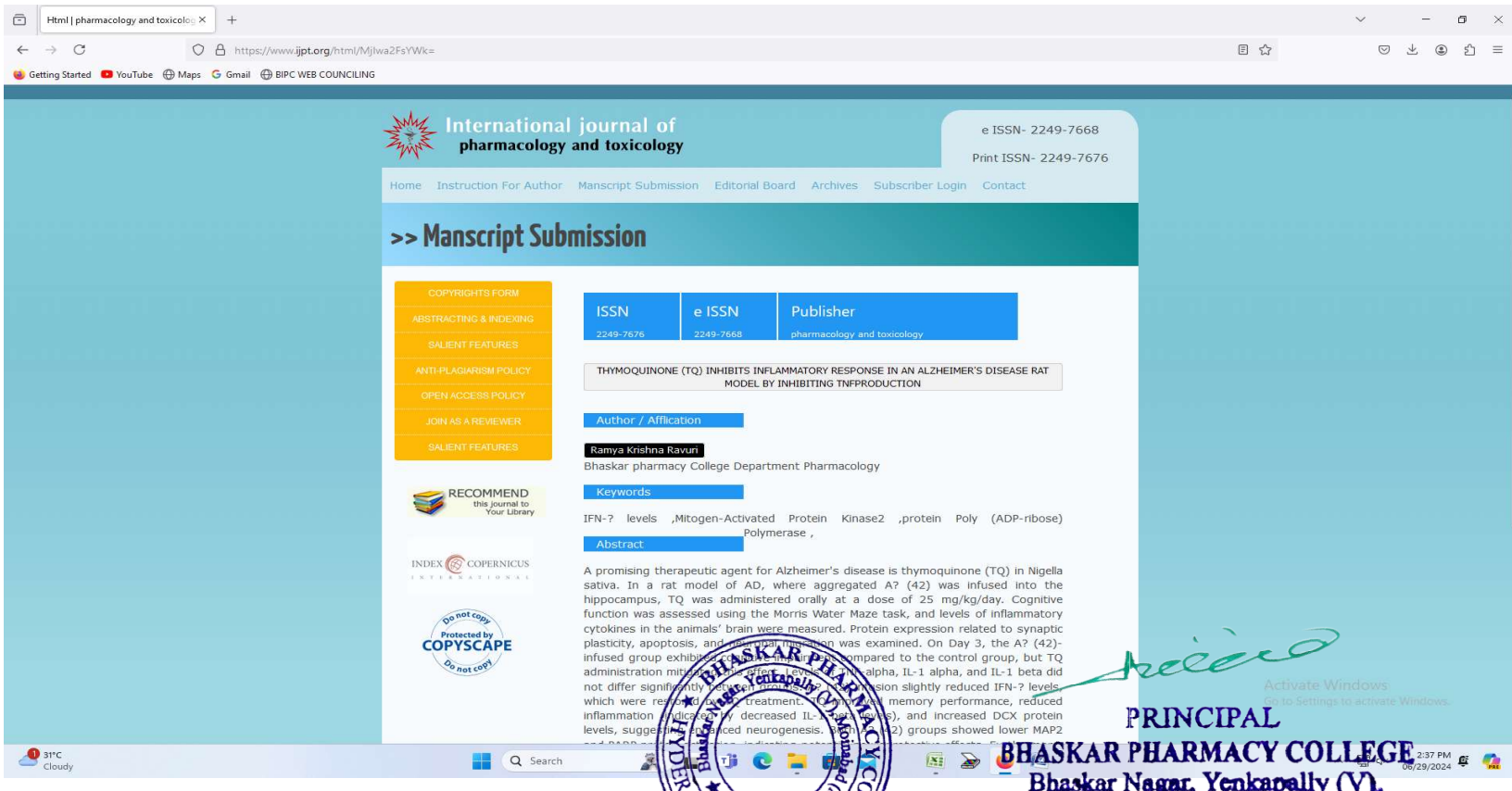

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Impact of Technology on Alzheimer's Patients to Memorize Things

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ABSTRACT: The work shows the effects and the methods that can be applied by the medical representative to provide the best methods in the application of the treatment of the patients. The use of technology is in making the improvement of the health and mental conditions of humans.

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Methods for Producing a Lipidic Drug Delivery System with Maximal Bioavailability Improving the Absorption of a Poorly Water-Soluble Anti-Hypertensive Drugs

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FORMULATION AND EVALUATION OF ATENELOL LIQUID FILL FORMULATIONS FOR SOFT GELS

Sowmya Maddukuri[1*], Devineni Jyothirmayee[2], Sobitha Rani Pedireddi[1] and Udaya Chandrika Pulla[1]

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ABSTRACT
The present investigation was under taken with the objective of enhancing the permeability of Atenolol (ATL), a β1 selective receptor antagonist through the preparation of liquid fill formulations for soft gels. Liquid fill formulations for ATL(25mg) soft gels were prepared using excipients such as dimethyl sulfoxide(DMSO), Ethanol, hydrophilic vehicles like Propylene glycol (PG), polyethylene glycol(PEG-400) and HP-β-CD, Water. The prepared formulations were evaluated for Appearance, pH, content uniformity, viscosity, drug excipient compatibility and *in vitro* drug release parameters. Stability of the optimised formulation was evaluated by storing for six months, at 40^{0}C and 75% RH. Among all the prepared formulations, formulation F3 containing 40% DMSO, 23.75% PEG-400 and 23.75% PG showed superior drug release (100% within 75sec) with definite physical and chemical stability. The results provide surveillance for developing soft gel capsule of ATL that give better rate of absorption, than existing dosage form and provide quick onset of action with better patient compliance.

KEYWORDS: Atenolol, *In vitro* dissolution, Liquid fill formulations, Stability, Viscosity.

INTRODUCTION

Atenolol (ATL) is a selective β1 receptor antagonist, a drug belonging to the group of beta blockers[1], without membrane stabilizing or intrinsic sympathomimetic activities.[2] ATL was introduced in 1976. It was developed as a replacement for propranolol in the reduces renal vascular resistance in hypertensive patients.[7] Hence, ATL was chosen because of its anti-hypertensive activity, in order to increase its absorption.

Atenolol is white powder, freely soluble in methanol, DMSO and is practically insoluble in Acetonitrile.

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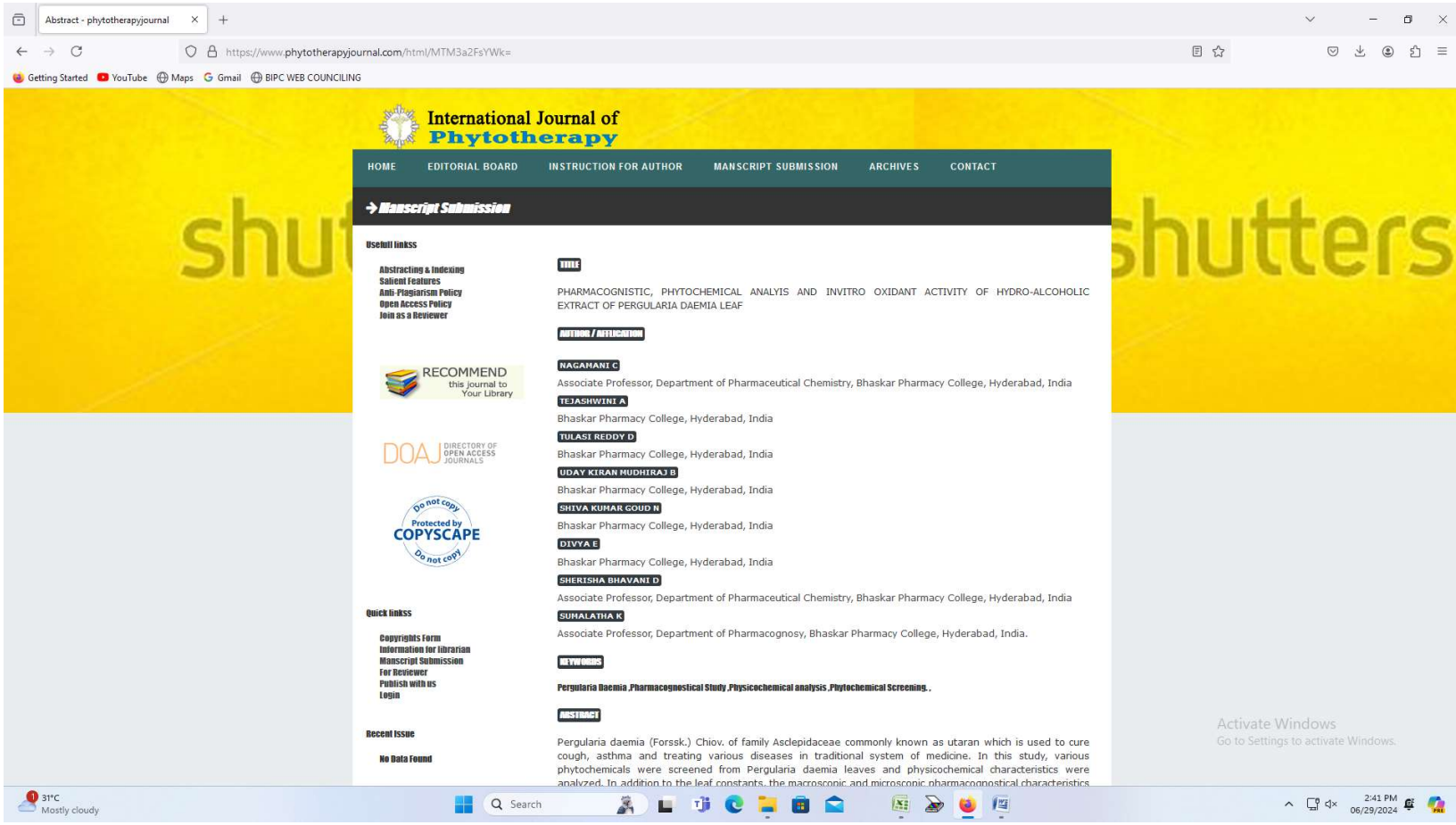

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TITLE

PHARMACOGNISTIC, PHYTOCHEMICAL ANALYIS AND INVITRO OXIDANT ACTIVITY OF HYDRO-ALCOHOLIC EXTRACT OF PERGULARIA DAEMIA LEAF

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KEYWORDS

Pergularia Daemia ,Pharmacognostical Study ,Physicochemical analysis ,Phytochemical Screening. .

ABSTRACT

Pergularia daemia (Forssk.) Chiov. of family Asclepidaceae commonly known as utaran which is used to cure cough, asthma and treating various diseases in traditional system of medicine. In this study, various phytochemicals were screened from Pergularia daemia leaves and physicochemical characteristics were analyzed. In addition to the leaf constants, the macroscopic and microscopic pharmacognostical characteristics

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A Prospective Observational Study on Prescribing Patterns of Restricted Antimicrobials and Determining Outcomes

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Abstract-

Background:

Treatment with Antimicrobial agents appears to be so efficacious and rational that they are occasionally prescribed for dubious indications and for extended than required where the priority for adverse effects and development of resistance is hardly any. AMR could be a global problem. Eradication of AMR requires a big reduction within the use of antimicrobials. As a result, some antimicrobials are restricted and prescribed only under the supervision of a physician for which they are grouped under Restricted Antimicrobial Agents.

Objective:

This study illustrates the factors influencing the need for prescribing Restricted Antimicrobials and evaluating the patient outcomes. Restricted Antimicrobials are regularly classified under a 'traffic light system'. While this isn't a necessary need, one of these machines is diagnosed throughout many Australian healthcare centers and it's far usually taken into consideration to be an effective device for teaching prescribers approximately a local policy of restricted antimicrobials.

Methodology:

The study was conducted over a period of 6 months at territory hospital. A total of 114 patients were considered. This study was conducted on those patients who got admitted in general wards.

Results:

Study carried out in those subjects revealed that most of the cases were of CAI and had got admitted due to LRTI (18%) followed by surgery (17%) and the highly prescribed RA was found to be Meropenem (41%). Patients who got specific therapy got less no. of hospital stay. Samples were collected from subjects for culture tests before starting therapy and was found that most of the organisms detected to be KLEBSILLA (23.4%) and E. COLI (10.6%) and maximum no. Of organisms detected were found to be resistant to Ciprofloxacin (13.2%) and Levofloxacin (10.6%). Outcome showed that 89% of the patients got successfully treated and discharged.

Conclusion:

AMS can offer all healthcare professionals an intention to save the public from an inappropriate use of AMR and help in

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ORIGINAL ARTICLE **OPEN ACCESS**

Investigation of hypoglycemic, anticholesteremic, *in vivo* antioxidant and pancreatic beta cell protective effect of *Tecoma gaudichaudi DC* leaves in streptozotocin-induced diabetic rats

Kedar Kalyani Abhimanyu*[1], Chaudhari Sanjay Ravindra[2] and Rao Srinivasa Avanapu[3]
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ABSTRACT
Bignonia Linn (Bignoniaceae) is a monotypic genus of woody climbers, native to North America and mostly grown for ornament in the tropics of the old world. The antidiabetic potential of core species of Bignoniaceae was carried out on some species of Tecoma genus such as Tecoma gaudichaudi DC. In present study, in-vivo antidiabetic potential of isolated fraction of ethyl acetate extract of Tecoma gaudichaudi DC has been investigated. The identification of triterpenoid and their related functional group in bioactive fraction was categorized by using HRMS and IR. Oral administration of ethyl acetate extract of Tecoma gaudichaudi DC at dose 250 mg/kg & 500mg/kg) significantly increase in the body weight, decrease in the blood glucose and total cholesterol (P<0.05) and restore function of SOD and CAT enzymes. Histologically EATG (250 & 500mg/kg) treated group shows no significant effect on pancreatic β- cells while fraction rich with Ursolic acid treated group shows increased cell size of pancreatic β- cells. Insulin treated group shows normal density of islets of β- cells along with few areas showing necropsy. These finding reveals that ethyl acetate extract of leaves of Tecoma gaudichaudi DC shows significant antihyperglycemic, anti-cholesterolemic, in-vivo antioxidant activity and improved the cell density of β-cells of islets of langerhans in diabetic rats.
Keywords: *Tecoma gaudichaudi DC, Streptozotocin; Antihyperglycemic; Anti-cholesterolemic; Antioxidant*

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INTRODUCTION

Diabetes mellitus is a metabolic disease, characterized by hyperglycemia and impaired metabolism of

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Table of Contents

1

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ORIGINAL ARTICLE **OPEN ACCESS**

Cytotoxic, antioxidant and phytochemical analysis of *Tecoma gaudichaudi* DC (Bignoniaceae)

Kedar Kalyani Abhimanyu[1*], Sneha Nawale[2], ChaudhariSanjay Ravindra[3], Rao Srinivasa Avanapu[4]
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ABSTRACT

Bignonia Linn (Bignoniaceae) is a monotypic genus of woody climbers, native to North America and mostly grown for ornament in the tropics of the old world. In the present work, invitro cytotoxic (SRB) assay was carry out against five melanoma cell lines such as MCF 7, B16F10, B16F1, SK-MEL-2, MDA-MB-231 for determining the cytotoxic effects in cells in response to plant extracts. Initially Tecoma gaudichaudiDC were first sequentially extracted with pet ether, ethanol, ethyl acetate respectively by soxhlet extraction and subjected to phytochemical analysis. Preliminary phytochemical investigation of extracts of Tecoma gaudichaudi DC species was carried out by chemical test it reveals that plant contains triterpenoids, steroids, tannins, flavonoids. The ethyl acetate, ethanol, pet ether extract of Tecoma gaudichaudiDC along with Ursolic acid was not found effective on these five cancer cell lines at concentrations 10-80µg/ml by in-vitro cytototoxic assay.

Keywords: *Tecoma gaudichaudi dc, bignoniaceae, cytotoxic activity, melanoma cell lines.*

Received 20.02.2022 Revised 28.03.2022 Accepted 19.04.2022

INTRODUCTION

Bignonia Linn (Bignoniaceae) is a monotypic genus of woody climbers, native to North America and

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Table of Contents

1

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VIRTUAL REALITY IN HEALTHCARE EDUCATION: A REVIEW OF ITS DEVELOPMENT, APPLICATIONS AND CHALLENGES.

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ABSTRACT

Virtual Reality (VR) has made extensive inroads into both the consumer and professional sphere of life worldwide. In the education sector, virtual reality (VR) offers learners an immersive and interactive learning experience, enabling them to understand challenging concepts and ideas more efficiently. As VR has developed into a very useful technology, its overall practicality for use in education has tremendously increased over the years. However, due to the continuous and enormous evolution of the technology, the field of education

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RESEARCH
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EVALUATION OF CORONARY ARTERY DISEASE IN ASYMPTOMATIC TYPE-2 DIABETICS: THE ROLE OF EXERCISE STRESS TESTING

Kanchana N. Dussa[1]*, P.Prapulla[2], Manisha Madhukar Tonape[3], Muppaneni Srikanth[4], Somnath De[5], Jyothi Chatarla[6] and Sakshi Aole[7]

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Abstract

Controlling micro vascular disease and coronary artery disease becomes significantly more challenging in those with type 2 diabetes. Examining the state of one's arteries on a regular basis is, thus, crucial. One of the most practical and inexpensive methods for monitoring changes in blood volume is the photoplethysmogram (PPG). In order to draw conclusions about the patient's health, doctors used one of the many applications of photoplethysmography (PPG), the second derivative photoplethysmogram (SDPPG). Instead of the SDPPG formal ageing index, also known as the SDPPG-AI, we shall utilise the SDPPG informal technique. When comparing the 23 patients with diabetes to the healthy people who served as controls, the researchers observed that the patients with diabetes had a higher index of vascular ageing.

Keywords: Type 2 Diabetes, Photoplethysmograph, SDPPG, Vascular Aging

I. INTRODUCTION

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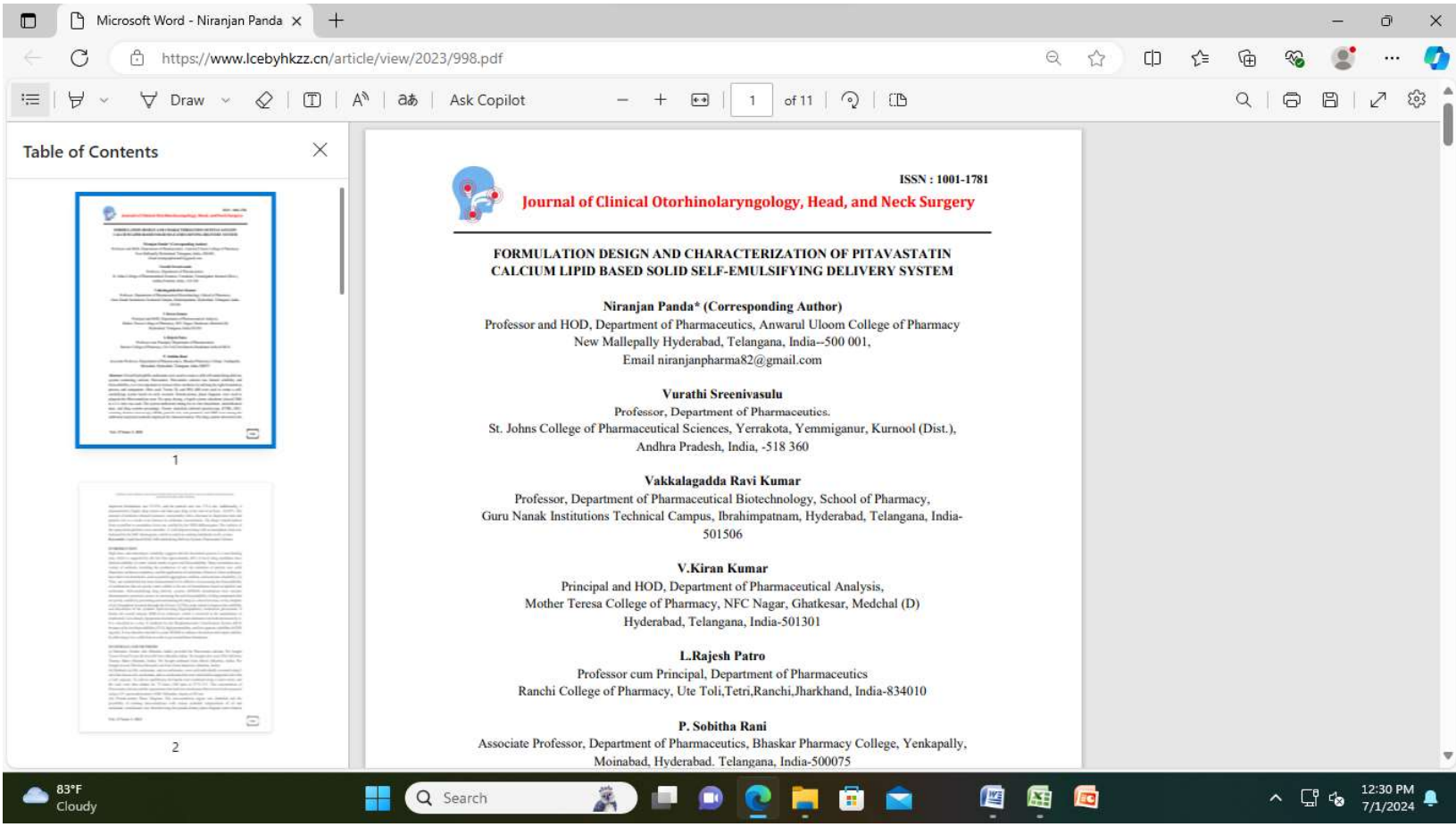

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Innovative Research on Garcinia Kola Heckel Seed Extracts Phytochemicals and Related Enzymes Ability to Prevent Important Blood Glucose Levels

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Abstract— a member of the Guttiferae family of Angiosperms, garcinia kola is the term "bitter kola" is used in trade. Its relevance in folkloric medicine as a purgative, mastcatory, aphrodisiac, etc. is significant. The seed seeds are used in the therapy of a variety of illnesses, including diabetes. Diabetes mellitus is a metabolic illness with several underlying causes characterised by chronic hyperglycemia that can cause

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Table of Contents

1

2

A LEARNING EXAMINATION OF MICROALBUMINURIA DISEASE IS IN NON-HYPERTENSIVE AND NON-DIABETIC PATIENTS WITH RECENT ISCHEMIC STROKE

Damayanthi Dalu [1*](Corresponding Author), Somnath De[2], Pankaj Kumar[3], Isha Kapila[4],Ritika Kalia[5], Satyabrata Jena[6].

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ABSTRACT: The work states that Microalbuminuria (MA) is an amount of urinary albumin that is higher than the standard value, but also lesser than the amount identified by a predictable

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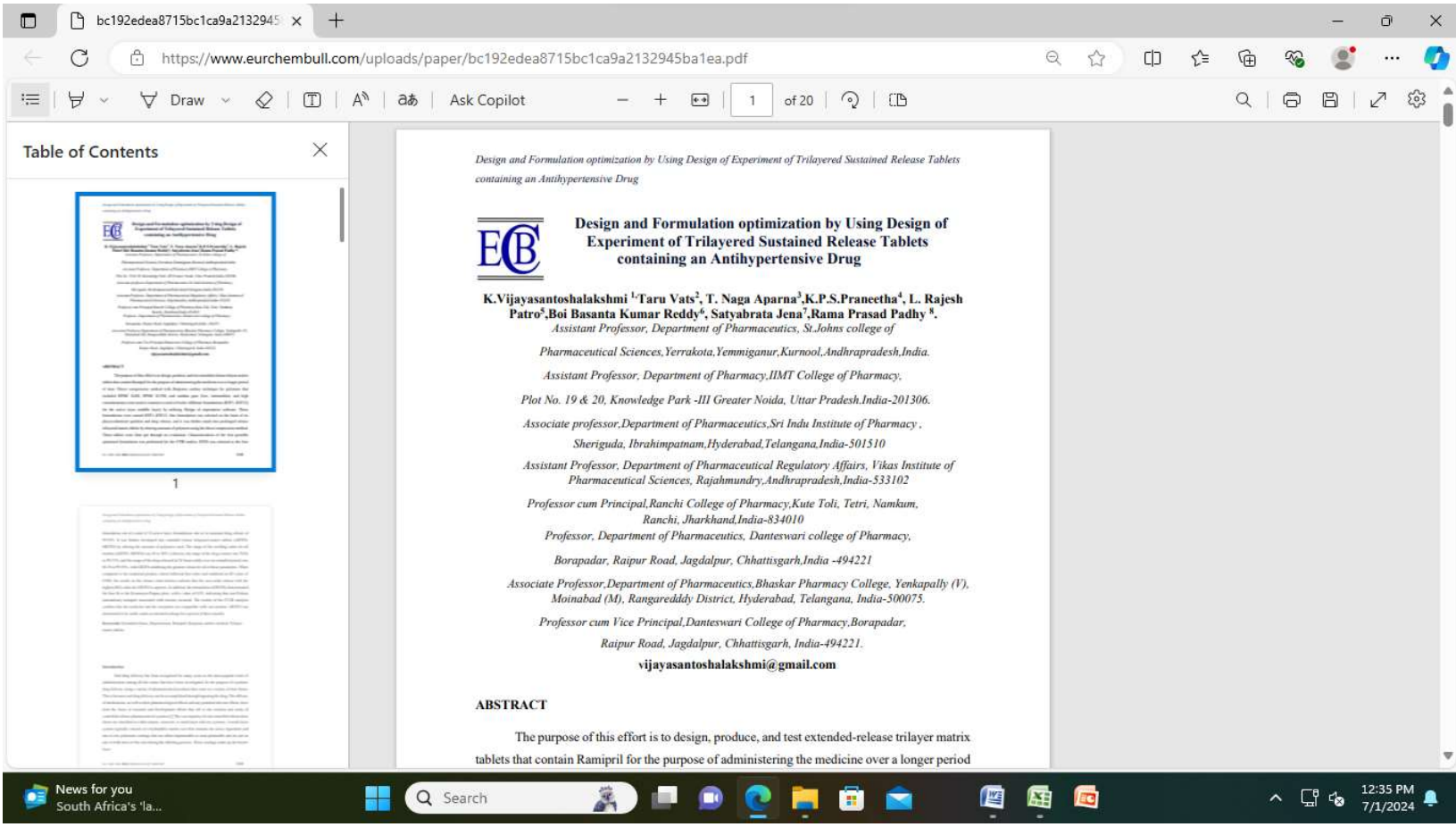

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Table of Contents

1

Design and Formulation optimization by Using Design of Experiment of Trilayered Sustained Release Tablets containing an Antihypertensive Drug

Design and Formulation optimization by Using Design of Experiment of Trilayered Sustained Release Tablets containing an Antihypertensive Drug

K.Vijayasantoshalakshmi [1],Taru Vats[2], T. Naga Aparna[3],K.P.S.Praneetha[4], L. Rajesh Patro[5],Boi Basanta Kumar Reddy[6], Satyabrata Jena[7],Rama Prasad Padhy [8].

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vijayasantoshalakshmi@gmail.com

ABSTRACT

The purpose of this effort is to design, produce, and test extended-release trilayer matrix tablets that contain Ramipril for the purpose of administering the medicine over a longer period

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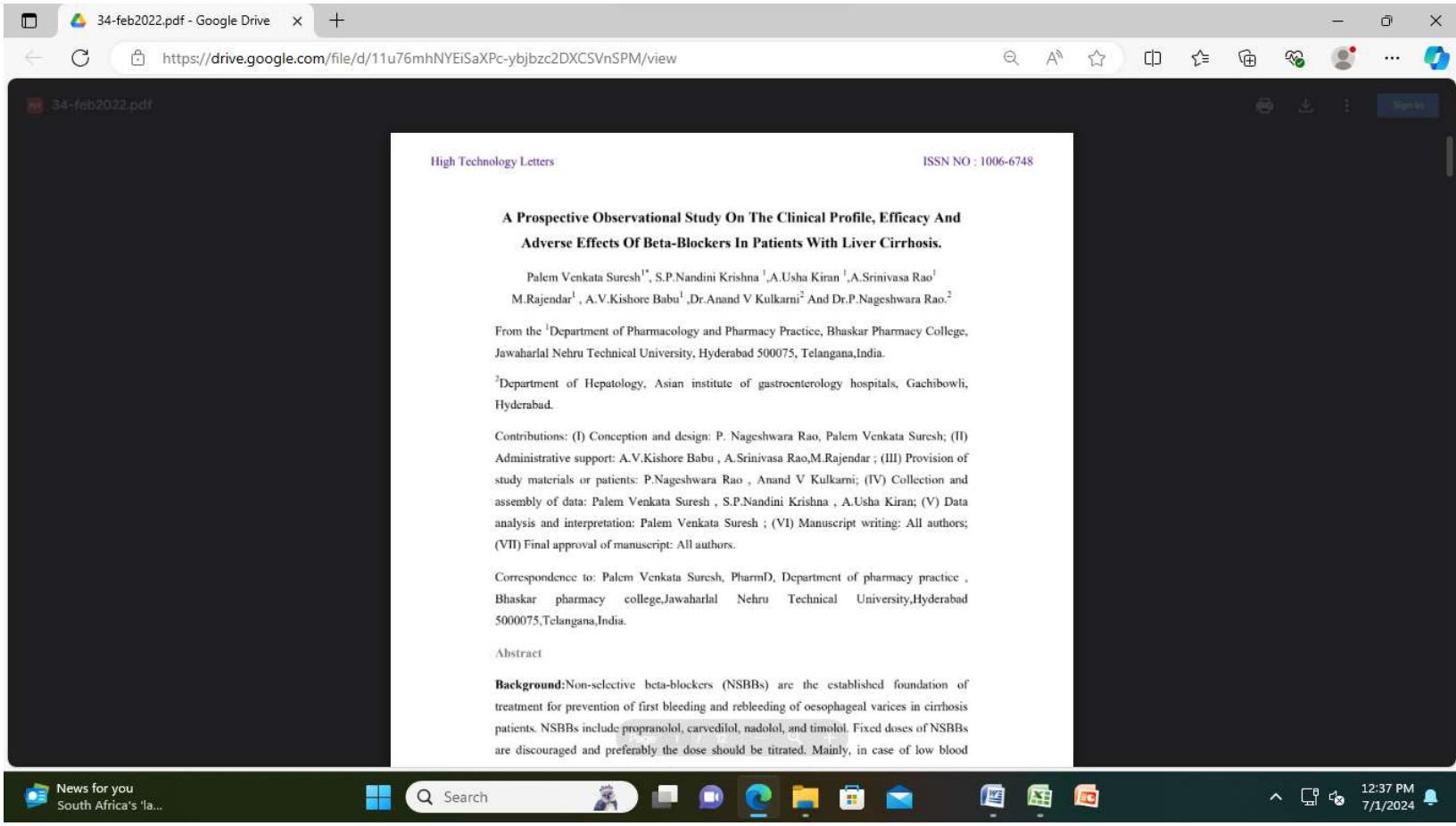

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High Technology Letters ISSN NO : 1006-6748

A Prospective Observational Study On The Clinical Profile, Efficacy And Adverse Effects Of Beta-Blockers In Patients With Liver Cirrhosis.

Palem Venkata Suresh[1*], S.P.Nandini Krishna [1],A.Usha Kiran [1],A.Srinivasa Rao[1] M.Rajendar[1] , A.V.Kishore Babu[1] ,Dr.Anand V Kulkarni[2] And Dr.P.Nageshwara Rao.[2]

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Contributions: (I) Conception and design: P. Nageshwara Rao, Palem Venkata Suresh; (II) Administrative support: A.V.Kishore Babu , A.Srinivasa Rao,M.Rajendar ; (III) Provision of study materials or patients: P.Nageshwara Rao , Anand V Kulkarni; (IV) Collection and assembly of data: Palem Venkata Suresh , S.P.Nandini Krishna , A.Usha Kiran; (V) Data analysis and interpretation: Palem Venkata Suresh ; (VI) Manuscript writing: All authors; (VII) Final approval of manuscript: All authors.

Correspondence to: Palem Venkata Suresh, PharmD, Department of pharmacy practice , Bhaskar pharmacy college,Jawaharlal Nehru Technical University,Hyderabad 5000075,Telangana,India.

Abstract

Background: Non-selective beta-blockers (NSBBs) are the established foundation of treatment for prevention of first bleeding and rebleeding of oesophageal varices in cirrhosis patients. NSBBs include propranolol, carvedilol, nadolol, and timolol. Fixed doses of NSBBs are discouraged and preferably the dose should be titrated. Mainly, in case of low blood

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FORMULATION AND *IN-VITRO* EVALUATION OF BOSENTAN MONOHYDRATE GASTRORETENTIVE TABLETS FOR TREATMENT OF PULMONARY ARTERY HYPERTENSION

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ABSTRACT

Aim: Bosentan monohydrate is an endothelin receptor antagonist which is used for the treatment of pulmonary artery hypertension. Bosentan monohydrate gastro retentive tablets were formulated in the present research by using various polymers, sodium bicarbonate as gas generating agent by wet granulation technique. Absorption maximum of Bosentan monohydrate was determined; analytical method was developed and calibration curve was constructed. **Methods:** The formulation blend was subjected to various flow properties, post compression and floating parameter studies. *In vitro* dissolution studies were conducted and release data was subjected to kinetic analysis. **Results:** Calibration curve showed high degree of linearity which represents the sensitivity and accuracy of developed UV analytical method. Pre compression parameters revealed that all results were within the ideal limits indicated the suitable flow properties of the powder blend. All Bosentan monohydrate gastro retentive tablets indicated

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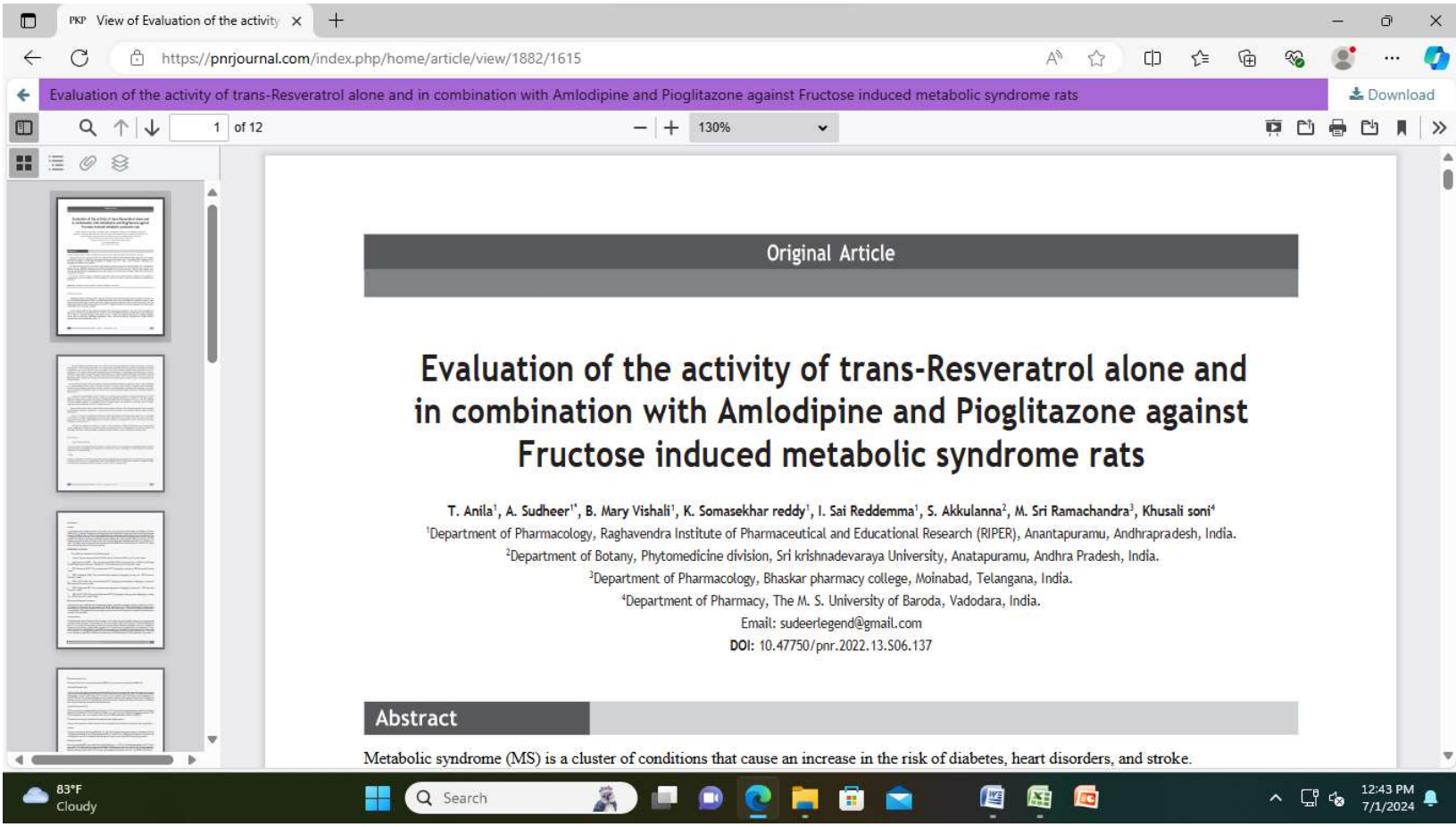

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Clinical Spectrum of Alcoholic Liver Disease in Subjects Attending Outpatient Department at a Tertiary Care Hospital

Komathi Subramaniam [a*], Penugonda Praval Reddy [a], Pulluri Saikiran [a], P. Nageshwara Rao [b], A. V. Kishore Babu [a] and A. Srinivasa Rao [a]

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Authors' contributions

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Research Article
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FORMULATION DEVELOPMENT AND IN-VITRO EVELUATION OF SUSTAINED RELEASE TABLETS OF REPAGLINIDE

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ABSTACT

Repaglinide is an oral antihyperglycemic agent used for the treatment of non-insulin dependent diabetes mellitus (NIDDM). Repaglinide is an amino acid derivative that induces an early insulin response to meals decreasing postprandial blood glucose levels. The major problem in oral drug formulations is low and erratic bioavailability, which mainly results from poor aqueous solubility. Solid dispersions is the techniques and the most attractive processes to improve solubility of poorly soluble drugs. Here the solubility of Repaglinide is enhanced by solid dispersions with PEG 6000 and urea as carriers. Among the various solid dispersions prepared, the formulation FSDPN3 i.e., the solid dispersion of Repaglinide with PEG6000 prepared by Fusion method shows faster dissolution rate it was decided to use formulations FSDPN3 to formulate sustained release tablets using different polymers like HPMC, EC ,Guar gum and Xanthum gum by direct compression technique. Among the various sustained release tablets of Repaglinide solid dispersion prepared, the formulation F2 shows complete release of drug in 12 hrs, which is considered as best formulation for sustained release tablets of Repaglinide.

KEYWORDS: Antihyperglycemic, postprandial, xanthum gum, direct compression technique.

INTRODUCTION

Repaglinide (Prandin) is an oral insulin secretagogue of the meglitinide class. This agent is a derivative of benzoic acid & chemically it is: (S)-2-ethoxy-4-{2-[3-methyl-1- [2-(1-piperidinyl) phenyl] butyl] amino}-2-oxoethyl} benzoic acid.

Structure:

Magnesium stearate from S.D. Fine Chem. Ltd, Mumbai, India. Talc from S.D. Fine Chem. Ltd, Mumbai, India. Ethyl cellulose from S.D. Fine Chem. Ltd, Mumbai, India. HPMC from S.D. Fine Chem. Ltd, Mumbai, India

Preparation of calibration curve for repaglinide:

A. Standard curve in 0.1N HCL by using U.V spectrophotometer

Stock Sample Preparation: Accurately weighed 100 mg of drug was first dissolved in100 mL of 0.1N HCL in

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Volume 14 , Issue 1

TITLE

FORMULATION AND EVALUATION OF MEDICATED HERBAL TOOTHPASTE

AUTHOR / AFFLICATION

MRS.K.SUMALATHA*, A.CHANDANA, A.SRI KARAN YADAV, P.ALEKHYA,T.SAMHITHA, G.KEERTHI, MRS.C.NAGAMANIS

KEYWORDS

Herbal Ingredient ,Toothpaste ,Antibacterial ,

ABSTRACT

The aim of current research to formulate herbal toothpaste utilizing plant extract like Azadhiracta indica leaves, Phyllanthus niruri leaves, Spathodea companulata leaves, aloe vera, Cinnamon bark other ingredient are Camphor, Clove, Honey. The plant extracts ingredient possesses the antibacterial activity. The herbal toothpaste formulated which can satisfy all the required condition to keep the mouth fresh and prevent tooth decay by bacteria. Physical examination: Colour-Pale yellowish white, smooth in nature, relative density-10.2, PH-8.2, Spreadability- Good and stable formulation. The antimicrobial evaluation against Staphylococcus aureus reveal that formulated herbal tooth paste exhibited notable activity with ZOI of 16.0 mm at MIC of 25?g/ml. the outcome of this research herbal toothpaste shows equal patronizing and engrossing passion over the marketed preparation it was consider after the

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FORMULATION AND EVALUATION OF MEDICATED HERBAL TOOTHPASTE

Mrs.K.Sumalatha*, A.Chandana, A.Sri karan Yadav, P.Alekhya,T.Samhitha, G.Keerthi, Mrs.C.Nagamani

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ABSTRACT

The aim of current research to formulate herbal toothpaste utilizing plant extract like *Azadhiracta indica* leaves, *Phyllanthus niruri* leaves, *Spathodea companulata* leaves, aloe vera, Cinnamon bark other ingredient are Camphor, Clove, Honey. The plant extracts ingredient possesses the antibacterial activity. The herbal toothpaste formulated which can satisfy all the required condition to keep the mouth fresh and prevent tooth decay by bacteria. Physical examination: Colour-Pale yellowish white, smooth in nature, relative density-10.2, PH-8.2, Spreadability- Good and stable formulation. The anti-microbial evaluation against *Staphylococcus aureus* reveal that formulated herbal tooth paste exhibited notable activity with ZOI of 16.0 mm at MIC of 25µg/ml. the outcome of this research herbal toothpaste shows equal patronizing and engrossing passion over the marketed preparation it was consider after the comparing the marketed preparation with formulated herbal toothpaste. It has been good scope in dental health of public.

Keywords: Herbal Ingredient, Toothpaste, Antibacterial, Dental, ZOI.

INTRODUCTION

Plants are indispensable to man for his life. The history of mankind, many infectious diseases have been

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SJIF Impact Factor 7.632
Volume 10, Issue 10, 2281-2321 Research Article ISSN 2278 – 4357

A STUDY ON EFFECTS OF PASSIVE SMOKING

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ABTRACT

According to World Health Organization tobacco is the leading cause of death world wide. Passive smoking or Environmental tobacco smoking (ETS) exposure is also known as "Second hand smoking" or "Involuntary smoke". It may cause pulmonary or extra pulmonary health effects. Tobacco smoke contains over 4000 chemicals in the form of particles and gases, they have irritant properties and found to be suspected human carcinogens. Women have unique heath effects like reproductive and non reproductive problems and beside these disease which are common to both genders rise in women. Children exposed with this smoke have serious respiratory illness than adults

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Volume 10, Issue 6, 1446-1457. Review Article ISSN 2277– 7105

FORMULATION DEVELOPMENT AND IN-VITRO EVELUATION OF BUCCAL TABLETS OF BENIDIPINE HCL TABLET

[1]*N. Rajitha, [2]M. Shiroja, [3]V. Lokesh Babu and [4]A. Srinivasa Rao

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ABSTRACT

The aim of the present study was formulation development and in-vitro evaluation of benidipine hydrochloride tablet of strength 4 mg. Direct compression technique was chosen to develop a finished pharmaceutical product. Various formulations (F1-F8) were taken. In these trials, drug: excipient ratio was varied and the effect of diluents, and various polymers like, HPMC 15 cps as a rate controlling polymer, and Sodium Alginate, Chitosan, Carbopol 940 are as mucoadhesive polymers on the performance tablets was studied.All the formulation has hausner's ratio between the 1.10 to1.18. It indicates all the formulation show better flow property. Among all formulation F7 showed in-vitro drug release 98.9% for 12hrs. And which is showed better release than marketed preparation hence considered as most promising preparation.

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EVAUATION OF ANTIMICROBIAL UTILISATION PATTERNS ACCORDING TO WORLD HEALTH ORGANISATION Aware CLASSIFICATION IN A MULTI- SPECIALTY HOSPITAL

[1]Syed Ishtiaq Ahmed, [2]Syed Abdul Rehman, [3]K.V. Sindhu Teja,
[4]A. Srinivasa Rao, [5]A.V. Kishore Babu

[1,2,3]Doctor of Pharmacy Intern, [4]Professor and Prinicipal of college, [5]Professor and Head of Department
[5]Department of pharmacy practice,
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Abstract :

INTRODUCTION: - Inappropriate use of antibiotics has become one of the biggest drivers for antimicrobial resistance [AMR] which has become an expanding public health warning. To improve the usage of antimicrobials, the World Health Organization grouped antibiotics into three categories which include Access, Watch, Reserve group antibiotics [AWaRe]. The compulsion of WHO is that Access group of antibiotics should be widely used and at low cost and to reduce the usage of watch and reserve groups of Antibiotics. Combination of factors such as changing prescribing practices, increasing AMR to other antibiotics classes and lack of availability of first line penicillin antibiotics included in Access groups could lead to the increasing usage of second and third generation cephalosporins of Watch group.

OBJECTIVES: - The Purpose of this study is to evaluate the pattern of antibiotic consumption in patients admitted in different departments according to WHO AWaRe group classification and The Secondary objective is to find out the Medication Errors such as wrong dose, wrong dosage form, wrong route of administration and potential drug interactions caused due to prescribed antibiotics.

METHODOLOGY: - A prospective observational study was conducted over a period of six months at Star multispecialty hospital, Hyderabad. The study was conducted to evaluate the use of antibiotics according to WHO AWaRe group classification. Total 150 prescriptions were analyzed for antibiotic consumption in inpatient departments of hospital.

RESULTS: - In our study we evaluated the overall antibiotic consumption pattern and found that the share of Access, Watch and Reserve group were 24.66%, 68.02% and 5.96% respectively. In our study we observed that the antimicrobial consumption pattern changed drastically without culture test and after culture. It was found that without the culture test Access group were 27.94% Watch group were 69.23%, Reserve group were 2.43% and Unclassified were 0.40% while after culture test the share of Access group changed to 18.03%, Watch group changed to 65.57%, Reserve group changed to 13.11% and Unclassified to 3.28% respectively.

KEYWORDS: Antimicrobial resistance, Essential Medicine List, Empirical therapy, Medication errors, Drug interaction

I. INTRODUCTION:

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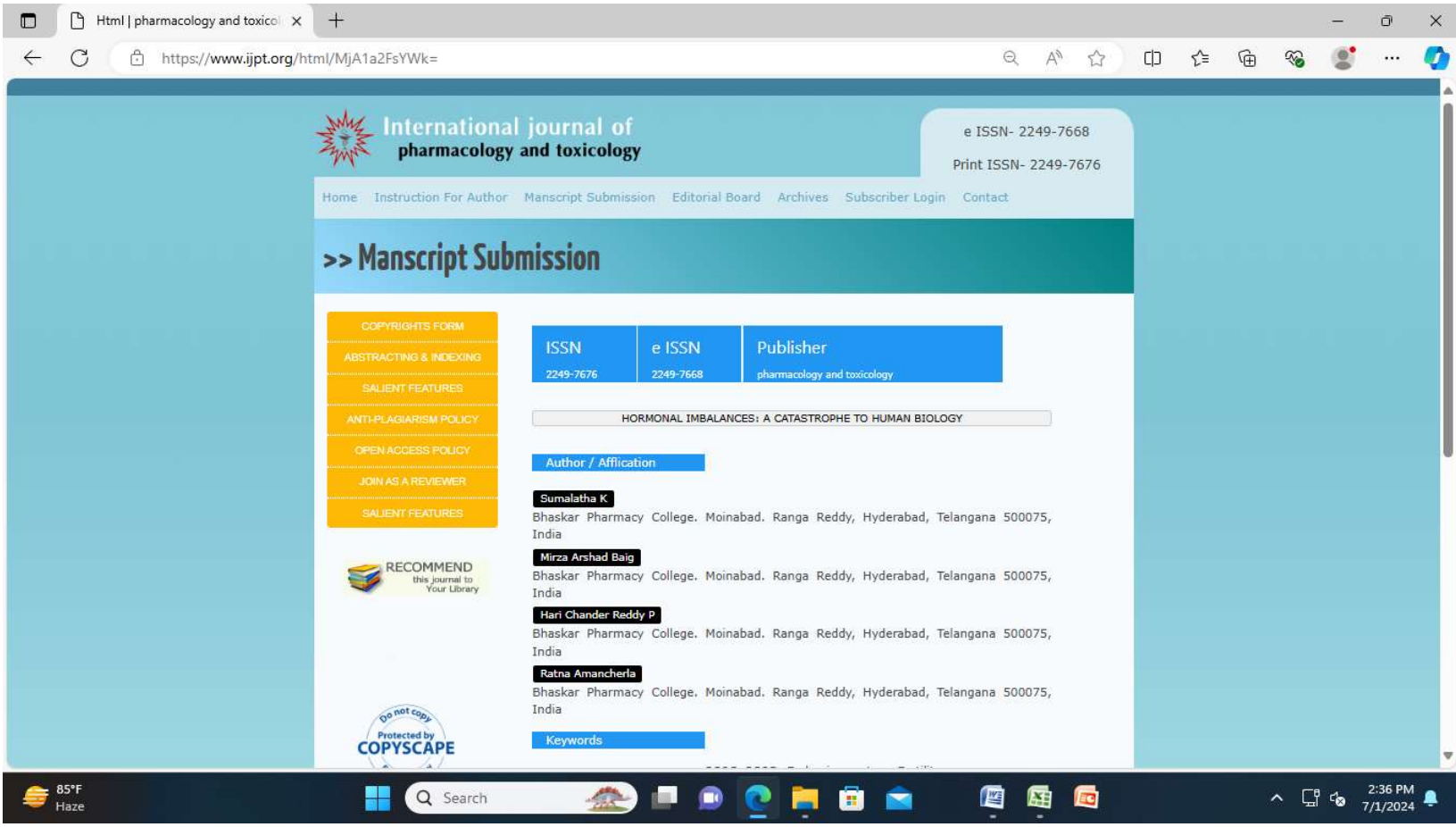

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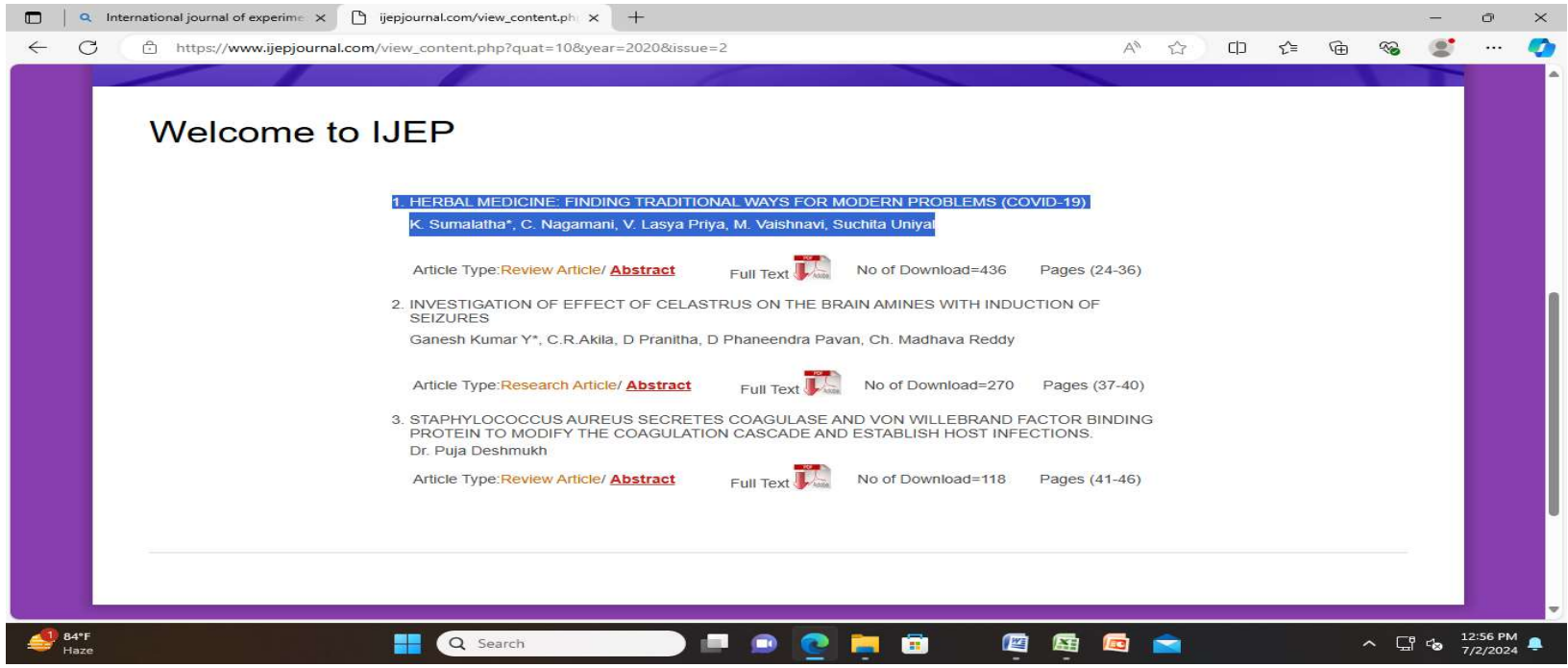

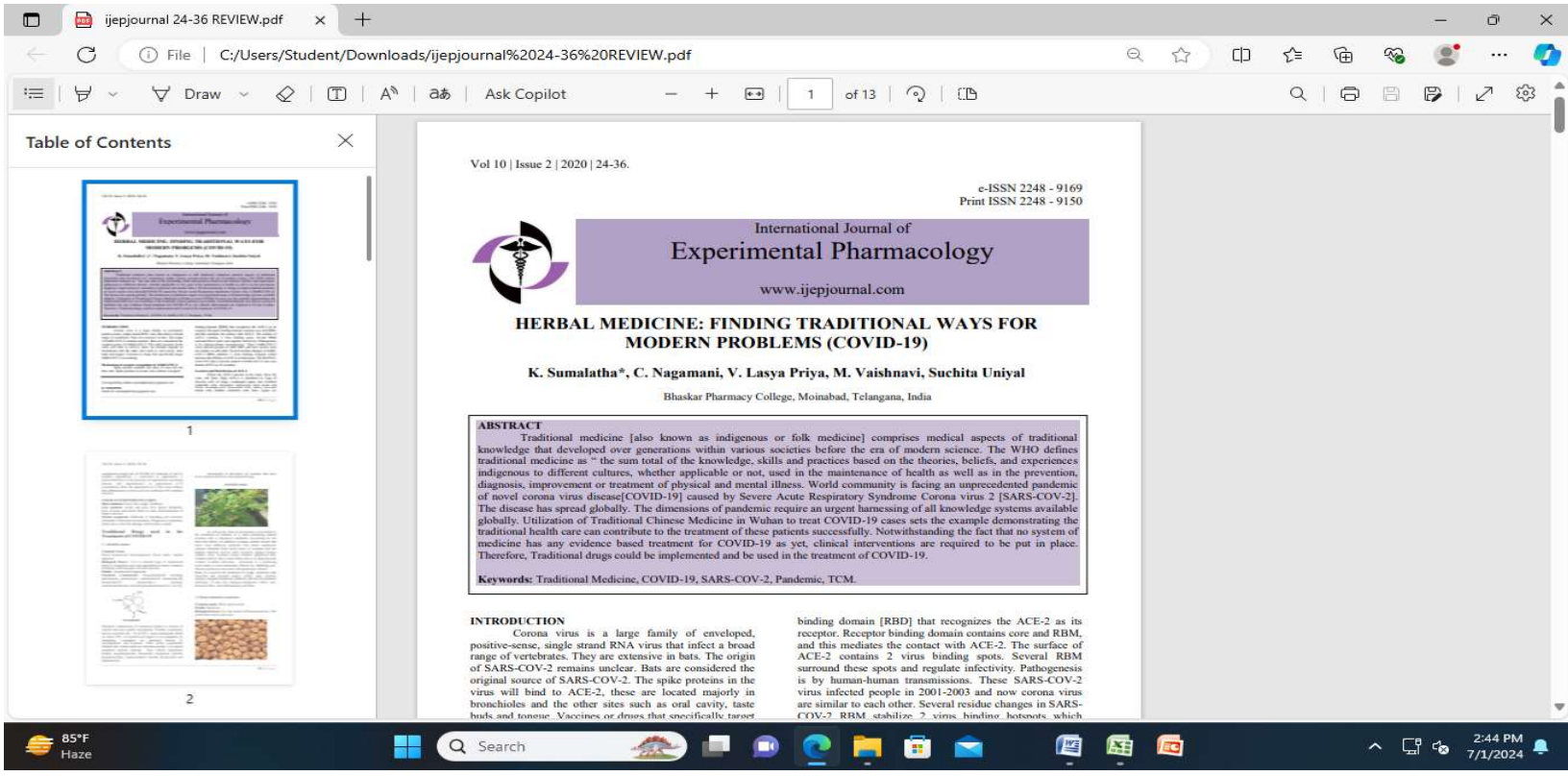

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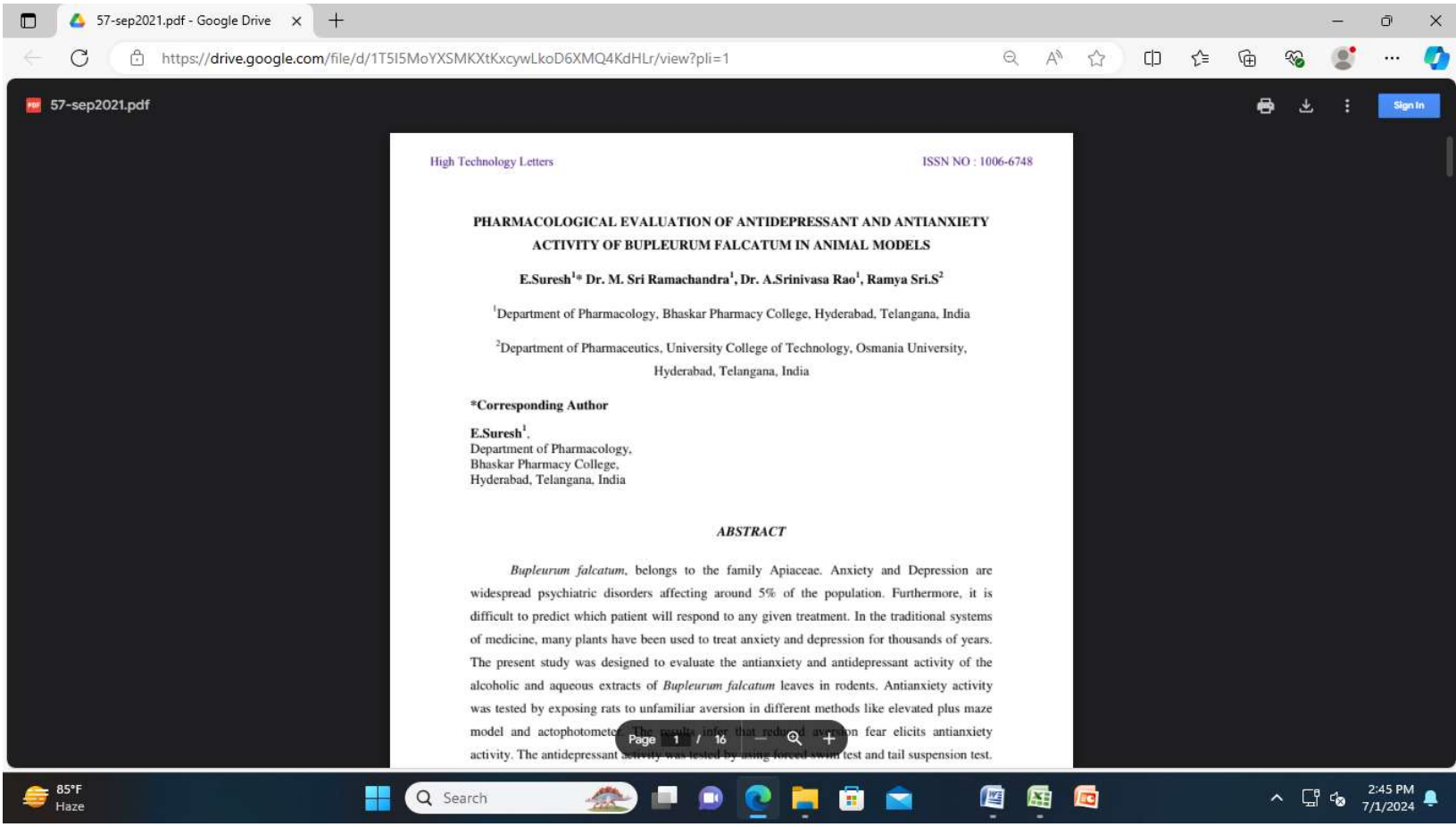

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PHARMACOLOGICAL EVALUATION OF ANTIDEPRESSANT AND ANTIANXIETY ACTIVITY OF BUPLEURUM FALCATUM IN ANIMAL MODELS

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ABSTRACT

Bupleurum falcatum, belongs to the family Apiaceae. Anxiety and Depression are widespread psychiatric disorders affecting around 5% of the population. Furthermore, it is difficult to predict which patient will respond to any given treatment. In the traditional systems of medicine, many plants have been used to treat anxiety and depression for thousands of years. The present study was designed to evaluate the antianxiety and antidepressant activity of the alcoholic and aqueous extracts of *Bupleurum falcatum* leaves in rodents. Antianxiety activity was tested by exposing rats to unfamiliar aversion in different methods like elevated plus maze model and actophotometer. The results infer that reduced aversion fear elicits antianxiety activity. The antidepressant activity was tested by using forced swim test and tail suspension test.

Page 1 / 16

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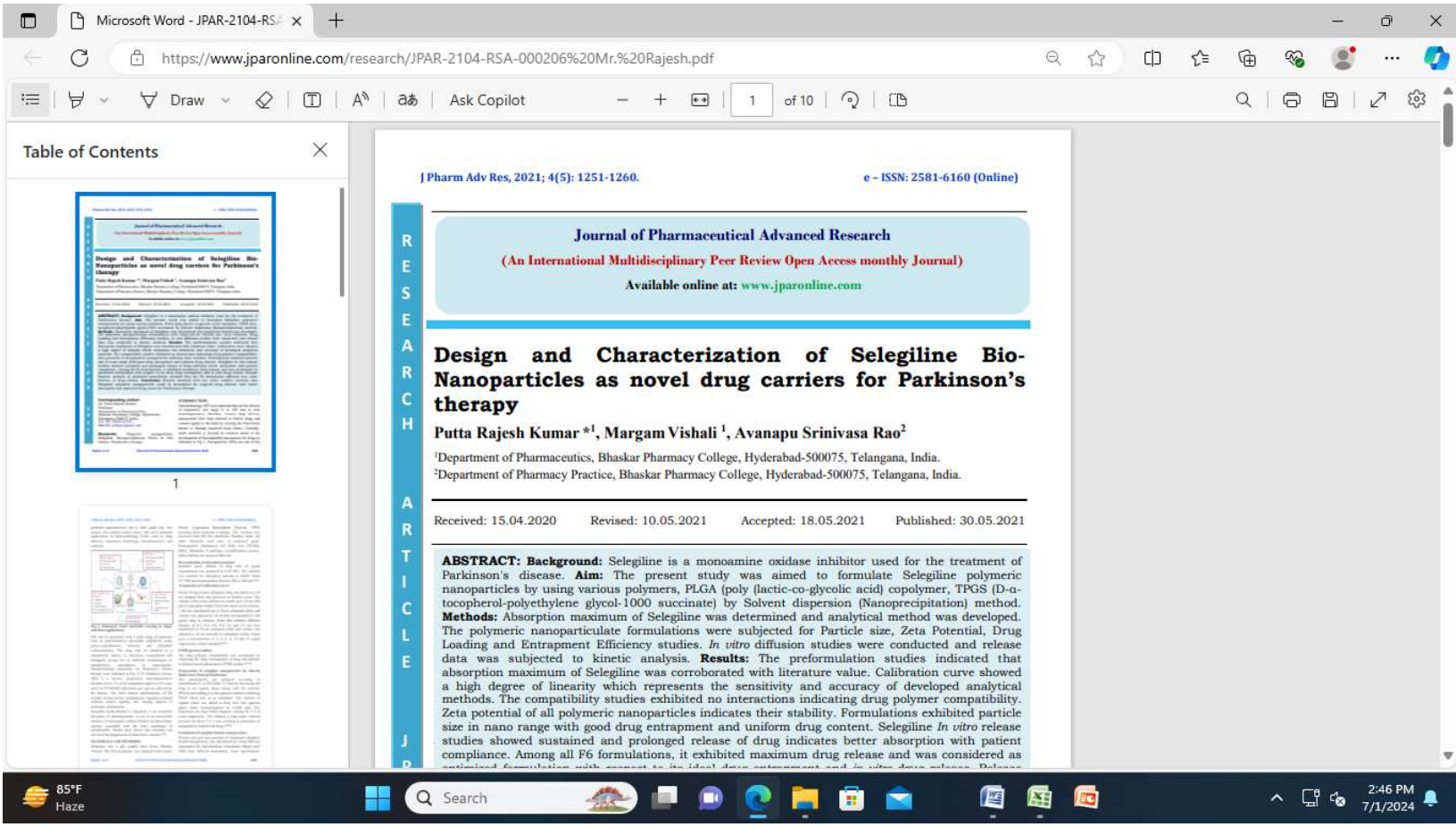

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RESEARCH ARTICLE J

Design and Characterization of Selegiline Bio-Nanoparticles as novel drug carriers for Parkinson's therapy

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ABSTRACT: Background: Selegiline is a monoamine oxidase inhibitor used for the treatment of Parkinson's disease. **Aim:** The present study was aimed to formulate Selegiline polymeric nanoparticles by using various polymers, PLGA (poly (lactic-co-glycolic acid) copolymer, TPGS (D-α-tocopherol-polyethylene glycol-1000 succinate) by Solvent dispersion (Nanoprecipitation) method. **Methods:** Absorption maximum of Selegiline was determined and analytical method was developed. The polymeric nanoparticulate formulations were subjected for Particle size, Zeta Potential, Drug Loading and Entrapment Efficiency studies. *In vitro* diffusion studies were conducted and release data was subjected to kinetic analysis. **Results:** The preformulation studies indicated that absorption maximum of Selegiline was corroborated with literature value. Calibration curve showed a high degree of linearity which represents the sensitivity and accuracy of developed analytical methods. The compatibility studies exhibited no interactions indicating drug polymer compatibility. Zeta potential of all polymeric nanoparticles indicates their stability. Formulations exhibited particle size in nano range with good drug entrapment and uniform drug content. Selegiline *In vitro* release studies showed sustained and prolonged release of drug indicates better absorption with patient compliance. Among all F6 formulations, it exhibited maximum drug release and was considered as

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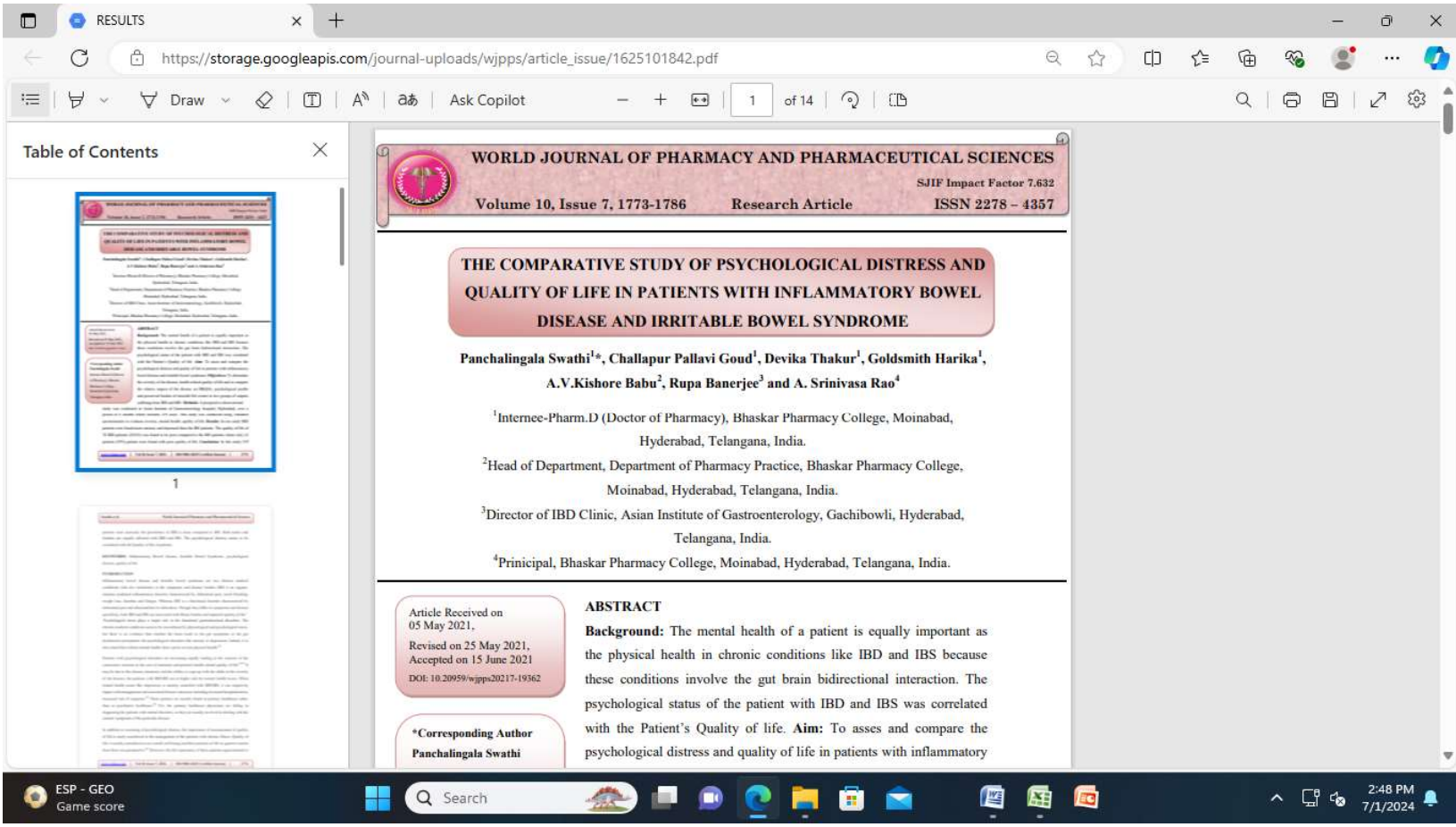

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Table of Contents

1

WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES
SJIF Impact Factor 7.632
Volume 10, Issue 7, 1773-1786 Research Article ISSN 2278 – 4357

THE COMPARATIVE STUDY OF PSYCHOLOGICAL DISTRESS AND QUALITY OF LIFE IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE AND IRRITABLE BOWEL SYNDROME

Panchalingala Swathi[1]*, Challapur Pallavi Goud[1], Devika Thakur[1], Goldsmith Harika[1], A.V.Kishore Babu[2], Rupa Banerjee[3] and A. Srinivasa Rao[4]

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05 May 2021,
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ABSTRACT

Background: The mental health of a patient is equally important as the physical health in chronic conditions like IBD and IBS because these conditions involve the gut brain bidirectional interaction. The psychological status of the patient with IBD and IBS was correlated with the Patient's Quality of life. **Aim:** To asses and compare the psychological distress and quality of life in patients with inflammatory

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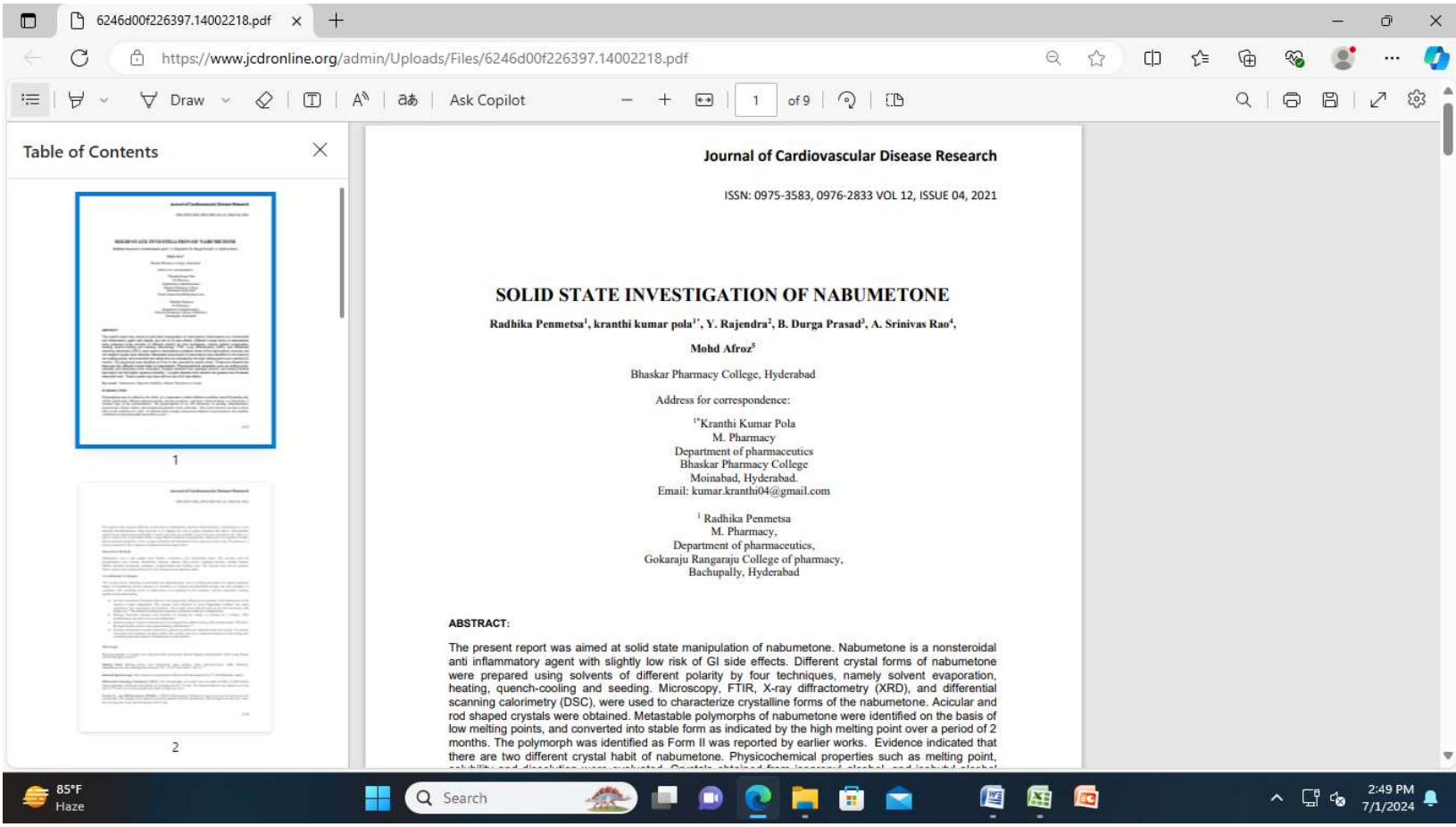

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Table of Contents

1

2

Journal of Cardiovascular Disease Research

ISSN: 0975-3583, 0976-2833 VOL 12, ISSUE 04, 2021

SOLID STATE INVESTIGATION OF NABUMETONE

Radhika Penmetsa[1], kranthi kumar pola[1*], Y. Rajendra[2], B. Durga Prasad[3], A. Srinivas Rao[4], Mohd Afroz[5]

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ABSTRACT:

The present report was aimed at solid state manipulation of nabumetone. Nabumetone is a nonsteroidal anti inflammatory agent with slightly low risk of GI side effects. Different crystal forms of nabumetone were prepared using solvents of different polarity by four techniques, namely solvent evaporation, heating, quench-cooling and seeding. Microscopy, FTIR, X-ray diffractometry (XRD), and differential scanning calorimetry (DSC), were used to characterize crystalline forms of the nabumetone. Acicular and rod shaped crystals were obtained. Metastable polymorphs of nabumetone were identified on the basis of low melting points, and converted into stable form as indicated by the high melting point over a period of 2 months. The polymorph was identified as Form II was reported by earlier works. Evidence indicated that there are two different crystal habit of nabumetone. Physicochemical properties such as melting point,

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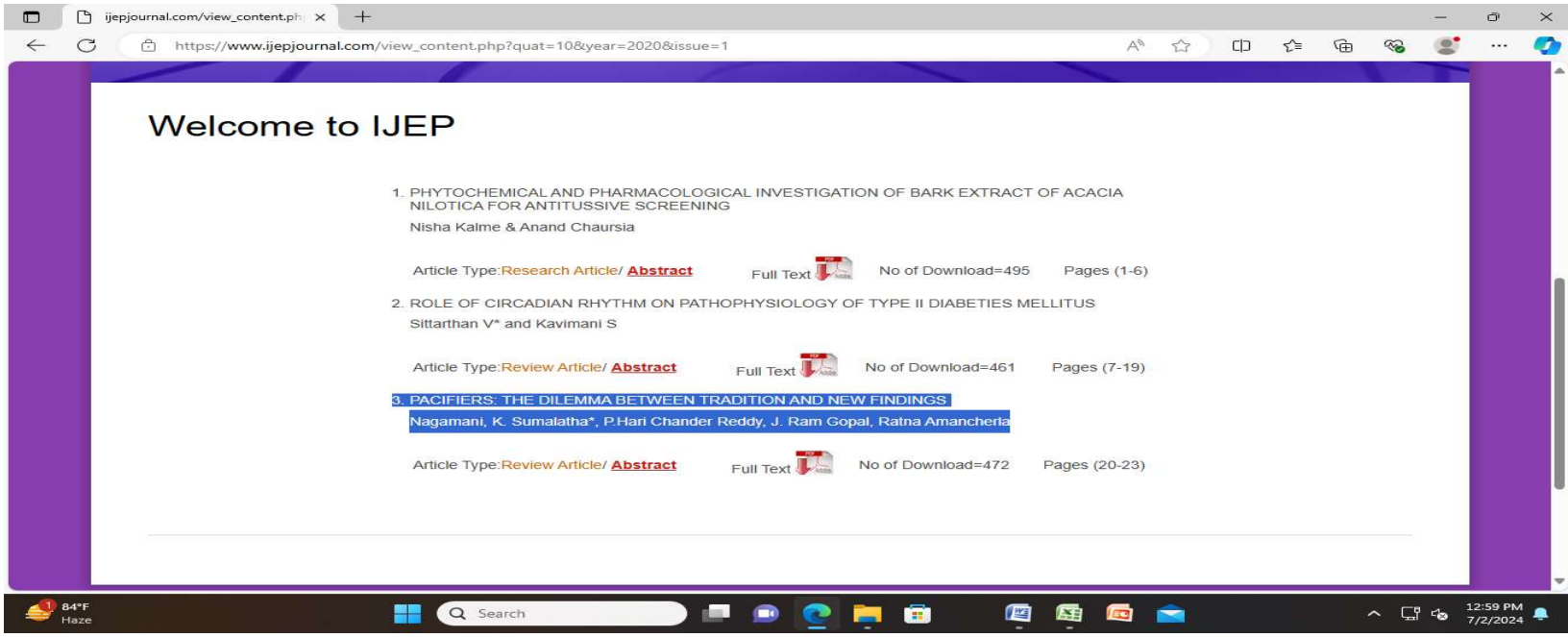

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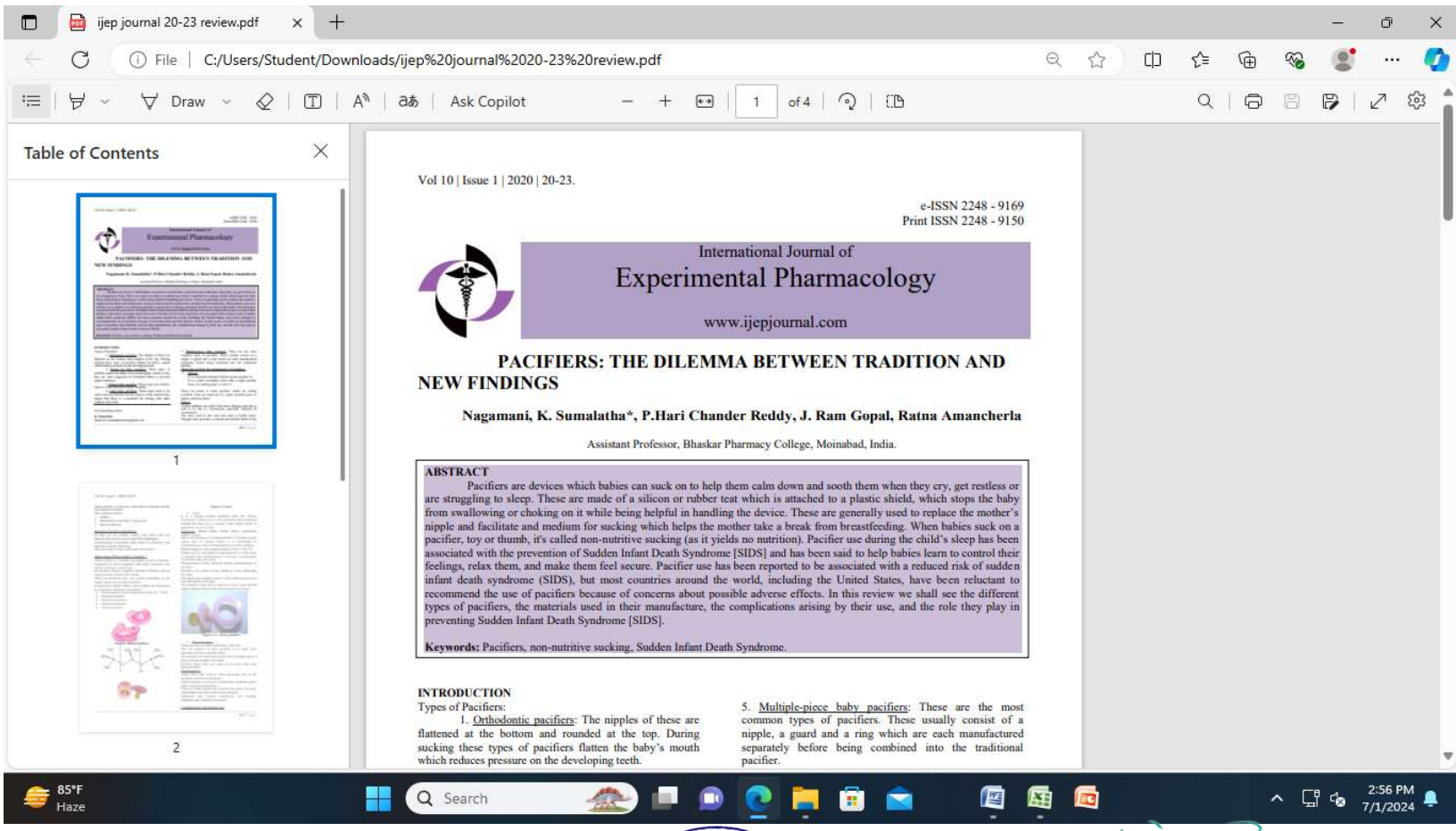

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PACIFIERS: THE DILEMMA BETWEEN TRADITION AND NEW FINDINGS

Nagamani, K. Sumalatha*, P.Hari Chander Reddy, J. Ram Gopal, Ratna Amancherla

Assistant Professor, Bhaskar Pharmacy College, Moinabad, India.

ABSTRACT

Pacifiers are devices which babies can suck on to help them calm down and sooth them when they cry, get restless or are struggling to sleep. These are made of a silicon or rubber teat which is attached to a plastic shield, which stops the baby from swallowing or choking on it while being helpful in handling the device. These are generally used to replace the mother's nipple and facilitate and medium for sucking which helps the mother take a break from breastfeeding. When babies suck on a pacifier, toy or thumb, it's called non-nutritive sucking (as it yields no nutrition). Pacifier use during the child's sleep has been associated with the prevention of Sudden Infant Death Syndrome [SIDS] and has been said to help babies learn to control their feelings, relax them, and make them feel secure. Pacifier use has been reported to be associated with a reduced risk of sudden infant death syndrome (SIDS), but most countries around the world, including the United States, have been reluctant to recommend the use of pacifiers because of concerns about possible adverse effects. In this review we shall see the different types of pacifiers, the materials used in their manufacture, the complications arising by their use, and the role they play in preventing Sudden Infant Death Syndrome [SIDS].

Keywords: Pacifiers, non-nutritive sucking, Sudden Infant Death Syndrome.

INTRODUCTION

Types of Pacifiers:

1. Orthodontic pacifiers: The nipples of these are flattened at the bottom and rounded at the top. During sucking these types of pacifiers flatten the baby's mouth which reduces pressure on the developing teeth.

5. Multiple-piece baby pacifiers: These are the most common types of pacifiers. These usually consist of a nipple, a guard and a ring which are each manufactured separately before being combined into the traditional pacifier.

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WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES
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CLINICAL OUTCOMES AND TOLERABILITY OF SACUBITRIL-VALSARTAN COMBINATION IN PATIENTS WITH HEART FAILURE

Nayini Sayika[1*], K. Vinod[2], T. Vamshi Krishna[3], Dr. Sushmitha[4], Dr. A. V. Kishore Babu[5] and Dr. A. Srinivasa Rao[6]

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ABSTRACT

Background: Heart failure sometimes called as Congestive heart failure, occurs when heart muscles doesn't pump as well as it should. Certain conditions such as narrowed arteries in your heart (Coronary heart disease) o high blood pressure, gradually leave your heart too weak or too stiff to fill and pump efficiently. **Methodology:** A total of 101 patients were considered. Informed consent was obtained from all

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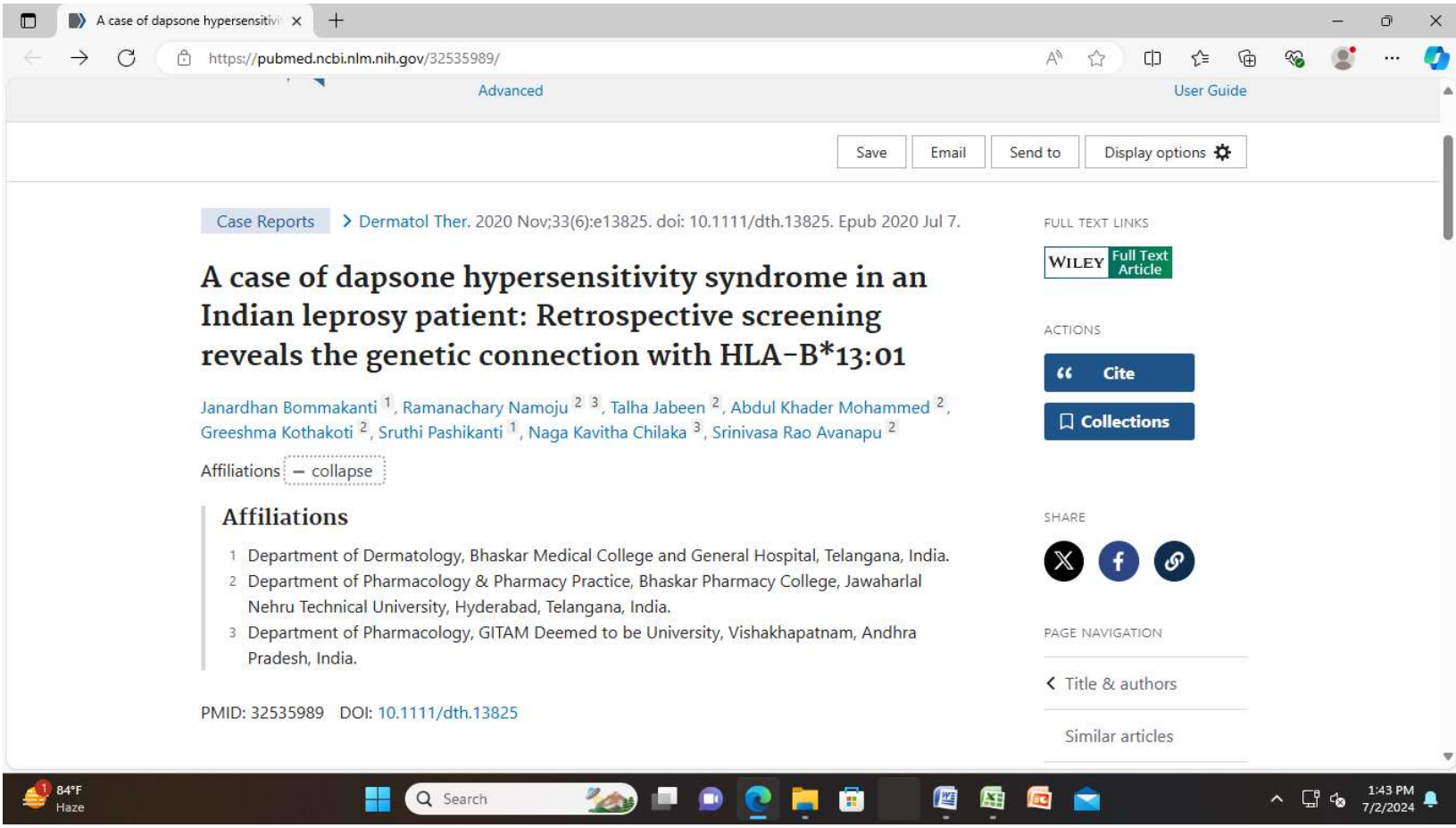

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A case of dapsone hypersensitivity syndrome in an Indian leprosy patient: Retrospective screening reveals the genetic connection with HLA-B*13:01

Janardhan Bommakanti [1], Ramanachary Namoju [2 3], Talha Jabeen [2], Abdul Khader Mohammed [2], Greeshma Kothakoti [2], Sruthi Pashikanti [1], Naga Kavitha Chilaka [3], Srinivasa Rao Avanapu [2]

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Improvement of Solubility and Dissolution Rate of Poorly Water-Soluble Anti-Cholestermic Drug Atorvastatin by Solid Dispersion Technique

DOI: https://doi.org/10.37285/ijpsn.2020.13.1.8

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Sumaiyya Saleem Saleem
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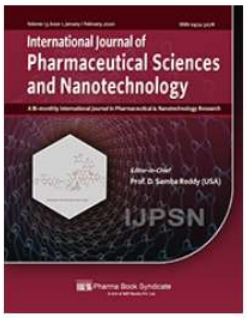

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ABSTRACT

Atorvastatin calcium belongs to class II drug, which is characterized by low solubility and high permeability, which makes the drug to have low bioavailability. Enhancement of its solubility makes the drug more bioavailable and has fewer side effects. This was achieved by forming solid dispersion of the drug and formulating the tablets.

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Table of Contents

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ISSN NO. 2320-5407

RESEARCH ARTICLE

ATYPICAL PRESENTATION OF METASTATIC EWING'S SARCOMA OF PUBIC BONE-A RARE CASE

Dr. Syeda Zaineb Humaira Hussaini[1], Dr. A. Srinivasa Rao[2] and Amini Raunaq Fatima[3]

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Key words:-
Pelvic Mass, Ewing's Sarcoma(ES), Chemotherapy(CT), Radiation Therapy (RT), Surgery

Abstract

Ewing's sarcoma is a highly malignant bone tumor which usually occurs in children and young adults and is not common in adults older than 30 years. It often arises from diaphysis of long bones. Although it may develop in any bone, the most frequent sites are femur, ilium, tibia, pelvic area, ribs and scapulae. A delay in early symptoms and diagnosis is quite common, particularly of pelvic tumors in which this mass is not palpable until it is quite large. The most important and earliest symptom is pain which may radiate to the limbs and constitutional symptoms (such as malaise and fever). Majority of patients have metastasis involving the lungs and other bones. Ewing's sarcoma involving the pelvis is a great challenge in terms of local control due to the complexity of pelvic anatomy, which increases the difficulty of treating them. We report a rare case report of Ewing's sarcoma of right pubic ramus with metastasis to lungs and spine in a 19 years old male. Further multislice spiral CT pelvis, Magnetic Resonance Imaging (MRI) of dorsal and lumbar spine and nuclear medicine positron emission tomography (PET-CT scan) was done to assess the involvement of soft tissue and proven Ewing's sarcoma. He

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The Clinical Aspects of Saroglitazar and its Side Effects

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Journal of Drug Delivery and Therapeutics

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Open Access Review Article

The Clinical Aspects of Saroglitazar and its Side Effects

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3. Department of Chemistry, Bhaskar Pharmacy College, Moinabad, Hyderabad, India

ABSTRACT

The new substance element has been known as novel antidiabetic drug, eg: saroglitazar. saroglitazar is a medication used to treat type-2 diabetes. saroglitazar was known under the exchange name Lipaglyn, created by Zydus cadila. lipaglyn is the first drug approved to treat type-2diabetes mellitus by the drug controller general of India in june 2013. Lipaglyn is demonstrated for the patients experiencing diabetes dyslipidaemia. It is given once daily for treatment. Saroglitazar manages the lipid parameters just as glycemic control. [1]

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Therapeutic Considerations for Docetaxel and Paclitaxel in Metastatic Breast Cancer

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Journal of Drug Delivery and Therapeutics

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Therapeutic Considerations for Docetaxel and Paclitaxel in Metastatic Breast Cancer

Doranala Harshini[1]*, Sreenivas Pasula [2]*, Vesangi Keerthi Vaishnavi[1], Tekula Shiva Sai[1], M. Rajendar[3], A. Srinivas Rao[3], A.V. Kishore Babu[1]

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ABSTRACT

Breast cancer is the main source of death among women. Currently, 77% of women diagnosed with breast cancer are age 50 and older; however, it is projected that approximately 66% of the new cases diagnosed will occur in women younger than 65. Taxanes are one of the most

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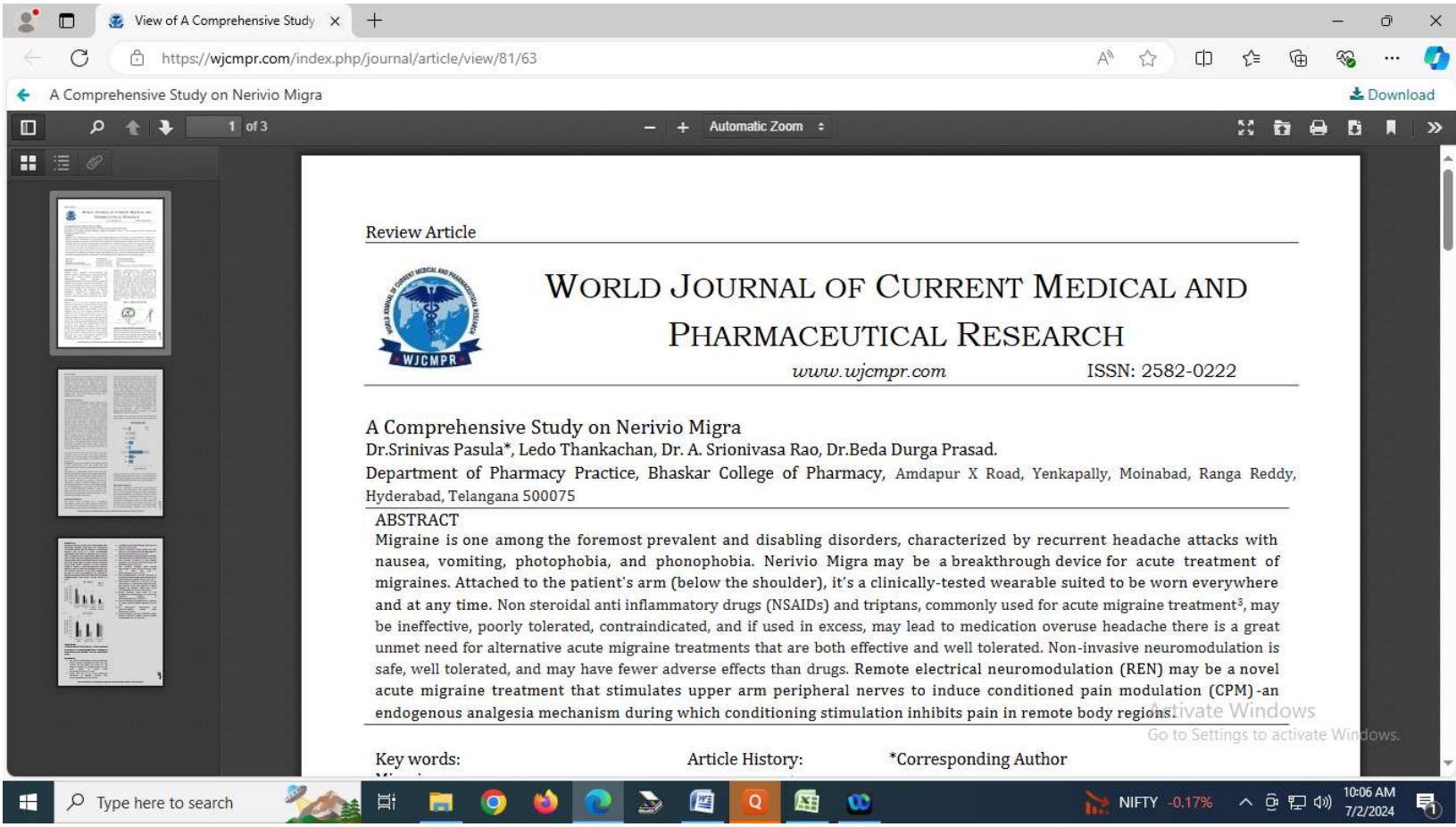

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Effect of Median Age of Countries Population on the Total Number of Covid-19 Cases and Deaths around the World

Mohd Abdul Hadi[1*], Tamrat Balcha Balla[2], Temesgen Sidamo Summoro[3], Ramana Hechhu[4], A. Srinivasa Rao[5]

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Corresponding Author: Dr. Mohd Abdul Hadi

ABSTRACT
COVID-19 (Coronavirus disease) is an infectious disease which is caused by a newly discovered coronavirus. Most of the people infected with the COVID-19 virus will show mild to moderate respiratory illness and recover without the necessity of special treatment. Median age is an important indicator of the population's age distribution. It provides the 'midpoint' age of a population. The aim of this review is to provide the evidence on the role of median age or young population of a particular country with regard to transmission rate of the spread of disease and deaths. The median age of all the affected countries were divided into four class intervals such as (15-25, 26-35, 36-45, and 46-55). The total number of Covid-19 cases and deaths of affected 209 countries/territories as on 13th April, 2020 were summarized according to their median age. Hence from the review, it can be concluded the total number of both cases and deaths are higher in countries with higher median age. From the survey reports of India and South Korea, it is clearly observed that the chances of infections is more in young people and the chances of fatalities are more in older people. Thus, in view of the data it can be said that the younger population is getting affected more, and hence perhaps with less number of deaths. That indicates that younger adults without realizing may be spreading COVID-19. Thus, the best approach for controlling the spread of COVID-19 seems to isolate older people and those with underlying medical conditions from the younger people.

Key-words: *COVID-19; Median age; Cases; Deaths*

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1

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EUROPEAN JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH

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Research Article
ISSN 2394-3211
EJPMR

EVALUATION OF ANTIDIABETIC ACTIVITY OF *SWERTIA CHIRAYITA* AND *PANAX GINSENG*

***Samreen Begum, Dr. A. Srinivasa Rao and M. Sri Ramachandra**

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ABSTRACT

Diabetes mellitus, one of the most common endocrine disorders has caused significant morbidity and mortality due to macro vascular and micro vascular complications. Currently available therapies for diabetes include insulin and various oral anti diabetic drugs have number of serious adverse effect; therefore the search for more effective and safer hypoglycemic agents is one of the important areas of investigation. Some medicinal plants have been reported to be useful in diabetes worldwide. The herbs like *swertia chirayata* shown to protect the liver. It contains xanthones which is reputedly effective against Malaria, Tuberculosis. It also cures constipation and used for treating dyspepsia with all other properties the *swertia chirayita* shows good anti diabetic activity. The other herb which was used to carry out the experiment *panax ginseng* is well effective in case of anti-sterility in men, it prevents cancer and fight chemical dependency (anti proliferative). The study was conducted to examine the possible antidiabetic activity of *swertia chirayata and panax ginseng* leaf extraction on male wistar rats. Gold thio glucose method was used to induce diabetes in rats. Initially blood glucose levels were increased abruptly after induction. After giving the oral administration of ethanolic extract of *swertia chirayat* (100mg/ Kg, 200mg/kg) and *panax gingseng* (250mg/kg, 100mg/kg). Finding of this research showed that ethanolic extract of a plant *swertia* possess phytochemicals like steroids, alkaloids, tannins, flavonoids and *panax ginseng* possess alkaloids, carbohydrates, flavonoids and tannins significant ($P< 0.05$) anti diabetic activity. The results were compared with standard drug metformin (400mg/kg).

KEYWORDS: *Swertia chirayita, panax ginseng*, Antidiabetics.

INTRODUCTION

DIABETES MELLITUS

Diabetes mellitus is a chronic metabolic disorder characterized by high blood glucose concentration (hyperglycemia) caused by insulin deficiency often

IMPORTANT TYPES OF DIABETES MELLITUS

A. TYPE I DIABETES MELLITUS

Type I diabetes mellitus is characterized by loss of the insulin producing beta cells of the islets of Langerhans in the pancreas leading to insulin deficiency. Type I

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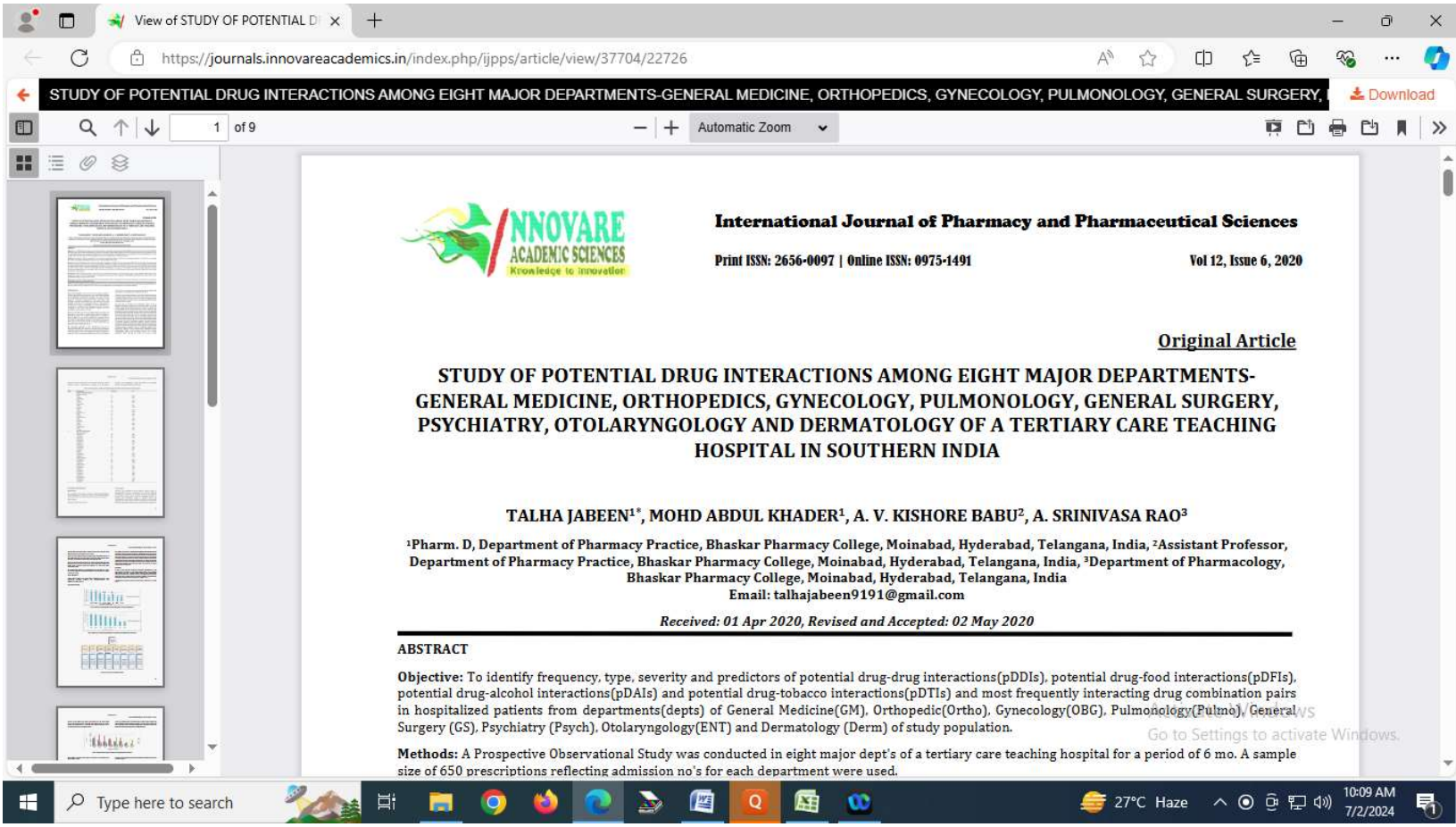

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STUDY OF POTENTIAL DRUG INTERACTIONS AMONG EIGHT MAJOR DEPARTMENTS-GENERAL MEDICINE, ORTHOPEDICS, GYNECOLOGY, PULMONOLOGY, GENERAL SURGERY, PSYCHIATRY, OTOLARYNGOLOGY AND DERMATOLOGY OF A TERTIARY CARE TEACHING HOSPITAL IN SOUTHERN INDIA

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Original Article

STUDY OF POTENTIAL DRUG INTERACTIONS AMONG EIGHT MAJOR DEPARTMENTS-GENERAL MEDICINE, ORTHOPEDICS, GYNECOLOGY, PULMONOLOGY, GENERAL SURGERY, PSYCHIATRY, OTOLARYNGOLOGY AND DERMATOLOGY OF A TERTIARY CARE TEACHING HOSPITAL IN SOUTHERN INDIA

TALHA JABEEN[1*], MOHD ABDUL KHADER[1], A. V. KISHORE BABU[2], A. SRINIVASA RAO[3]

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ABSTRACT

Objective: To identify frequency, type, severity and predictors of potential drug-drug interactions(pDDIs), potential drug-food interactions(pDFIs), potential drug-alcohol interactions(pDAIs) and potential drug-tobacco interactions(pDTIs) and most frequently interacting drug combination pairs in hospitalized patients from departments(depts) of General Medicine(GM), Orthopedic(Ortho), Gynecology(OBG), Pulmonology(Pulmo), General Surgery (GS), Psychiatry (Psych), Otolaryngology(ENT) and Dermatology (Derm) of study population.

Methods: A Prospective Observational Study was conducted in eight major dept's of a tertiary care teaching hospital for a period of 6 mo. A sample size of 650 prescriptions reflecting admission no's for each department were used.

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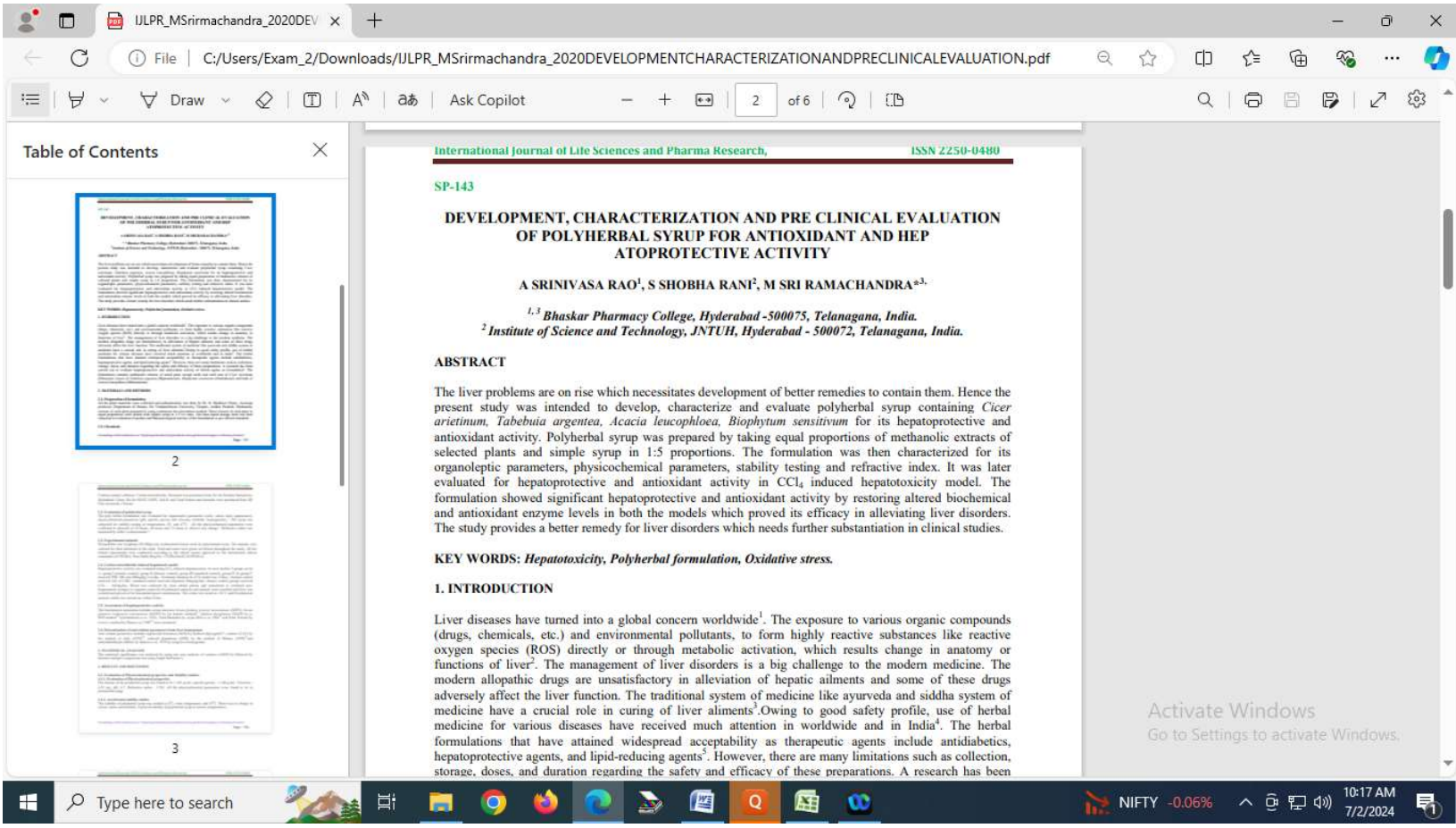

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Table of Contents

2

3

International Journal of Life Sciences and Pharma Research, ISSN 2250-0480

SP-143

DEVELOPMENT, CHARACTERIZATION AND PRE CLINICAL EVALUATION OF POLYHERBAL SYRUP FOR ANTIOXIDANT AND HEP ATOPROTECTIVE ACTIVITY

A SRINIVASA RAO[1], S SHOBHA RANI[2], M SRI RAMACHANDRA*[3].

[1,3] *Bhaskar Pharmacy College, Hyderabad -500075, Telanagana, India.*
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ABSTRACT

The liver problems are on rise which necessitates development of better remedies to contain them. Hence the present study was intended to develop, characterize and evaluate polyherbal syrup containing *Cicer arietinum, Tabebuia argentea, Acacia leucophloea, Biophytum sensitivum* for its hepatoprotective and antioxidant activity. Polyherbal syrup was prepared by taking equal proportions of methanolic extracts of selected plants and simple syrup in 1:5 proportions. The formulation was then characterized for its organoleptic parameters, physicochemical parameters, stability testing and refractive index. It was later evaluated for hepatoprotective and antioxidant activity in CCl_4 induced hepatotoxicity model. The formulation showed significant hepatoprotective and antioxidant activity by restoring altered biochemical and antioxidant enzyme levels in both the models which proved its efficacy in alleviating liver disorders. The study provides a better remedy for liver disorders which needs further substantiation in clinical studies.

KEY WORDS: ***Hepatotoxicity, Polyherbal formulation, Oxidative stress.***

1. INTRODUCTION

Liver diseases have turned into a global concern worldwide[1]. The exposure to various organic compounds (drugs, chemicals, etc.) and environmental pollutants, to form highly reactive substances like reactive oxygen species (ROS) directly or through metabolic activation, which results change in anatomy or functions of liver[2]. The management of liver disorders is a big challenge to the modern medicine. The modern allopathic drugs are unsatisfactory in alleviation of hepatic ailments and some of these drugs adversely affect the liver function. The traditional system of medicine like ayurveda and siddha system of medicine have a crucial role in curing of liver aliments[3].Owing to good safety profile, use of herbal medicine for various diseases have received much attention in worldwide and in India[4]. The herbal formulations that have attained widespread acceptability as therapeutic agents include antidiabetics, hepatoprotective agents, and lipid-reducing agents[5]. However, there are many limitations such as collection, storage, doses, and duration regarding the safety and efficacy of these preparations. A research has been

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ejbps, 2019, Volume 6, Issue 6, 486-493. **Research Article** **SJIF Impact Factor 4.918**

EUROPEAN JOURNAL OF BIOMEDICAL AND PHARMACEUTICAL SCIENCES
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Volume: 6
Issue: 6
486-493
Year: 2019

FORMULATION AND EVALUATION OF FELODIPINE HOLLOW MICROSPHERES

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ABSTRACT

Felodipine is a calcium channel blocker which is used for the treatment of high blood pressure to prevent heart stroke. In the current research work hollow microspheres of Felodipine with better absorption in gastric pH was formulated by using various polymers. Drug polymer compatibility was characterized by FT-IR. Microspheres were prepared by emulsion solvent diffusion technique by using different polymers such as ethyl cellulose, carbopol 934, eudragit and sodium alginate at varying concentrations. The formulations were evaluated for micromeritic properties, buoyancy, percentage yield, entrapment efficiency, *in vitro* studies and stability stuides. SEM photographs showed outer surface of microspheres was smooth and dense where as internal surface was porous which helped to prolong floating. Optimized F2 formulation exhibited higher release rate 95.55%. *In vitro* drug release studies showed controlled release of Felodipine for over 8h. Stability studies indicated the F2 formulation was stable with respect to its drug release.

KEYWORDS: Felodipine hollow microspheres, polymers, emulsion solvent diffusion technique, FTIR Studies, floating time, *in vitro* drug release studies.

INTRODUCTION

Oral drug delivery has been known for decades as the most widely used route of administration among all the routes. The reasons that the oral route achieved such popularity may be in part attributed to its ease of administration as well as the traditional belief. Pharmaceutical product designed for oral delivery which and predictable drug delivery in the GI tract is to control the gastric residence time (GRT), by using gastro-retentive dosage forms (GRDFs).[4,5] Floating systems were first described by Davis in 1968. FDDS is an effective technology to prolong the gastric residence time in order to improve the bioavailability of the drug. FDDS

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Table of Contents

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ejbps, 2019, Volume 6, Issue 8, 309-316. **Research Article** **SJIF Impact Factor 4.918**

EUROPEAN JOURNAL OF BIOMEDICAL AND PHARMACEUTICAL SCIENCES
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DESIGN AND *IN-VITRO* EVALUATION STUDIES OF TELMISARTAN LIPOSOMAL FORMULATIONS

B. Premkumar[1]* and A. Srinivasa Rao[2]

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ABSTRACT

The aim of the present study was to develop a liposomal gel formulation for antihypertensive drug telmisatran. Liposomal carriers are well known for their topical drug delivery system with an advantage to overcome serious gastrointestinal complications for steroidal or non steroidal drugs given in oral route. Liposomes with various concentrations of cholesterol were prepared using thin film hydration technique (vacuum rotatory evaporator). The liposomal formulation was incorporated in gel (carbopol) and characterized. The SEM analysis showed surface morphology of liposomal formulation was achieved. The FTIR analysis showed there is no specific interaction between drug and excipients. The in-vitro studies revealed that liposomal gel formulation exhibits increased permeation showing sustain. The future studies are warranted to develop commercial liposomal gel formulation for the treatment of hypertension.

KEYWORDS: Liposomes, Telmisatran, FTIR & in-vitro studies.

INTRODUCTION

Telmisartan is a nonpeptide angiotensin-II receptor (type AT1) antagonist. It blocks the vasoconstrictor and aldosterone-secreting effects of angiotensin-II by selectively blocking its binding to the AT1 receptor in adrenal gland and smooth muscles of vasculature.[1,2] In the past few decades, considerable attention has been systems delay drug elimination of rapidly metabolizable drugs and function as sustained release systems and solve the problems of drug insolubility, instability and rapid degradation. Consequently, a number of vesicular delivery systems such as liposomes, proliposomes, transferosomes, pharmacosomes, niosomes or proniosomes etc. were developed.[3] Most commonly

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International Journal of Research ISSN NO:2236-6124

DEVELOPMENT AND CHARACTRIZATION OF GRANISETRON FAST DISSOLVING TABLETS

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Department of Pharmaceutics, Bhaskar Pharmacy College, Yenkapally, Moinabad, Rangareddy Dist, Telangana 500075.

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Open Access Review Article

Therapeutic Considerations for Docetaxel and Paclitaxel in Metastatic Breast Cancer

Doranala Harshini[1]*, Sreenivas Pasula [2]*, Vesangi Keerthi Vaishnavi[1], Tekula Shiva Sai[1], M. Rajendar[3], A. Srinivas Rao[3], A.V. Kishore Babu[1]

1. Pharm D Department of Pharmacy Practice, Bhaskar Pharmacy College, Moinabad, Hyderabad, India

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3. Department of Pharmacology Bhaskar Pharmacy College, Moinabad, Hyderabad, India

ABSTRACT

Breast cancer is the main source of death among women. Currently, 77% of women diagnosed with breast cancer are age 50 and older; however, it is projected that approximately 66% of the new cases diagnosed will occur in women younger than 65. Taxanes are one of the most

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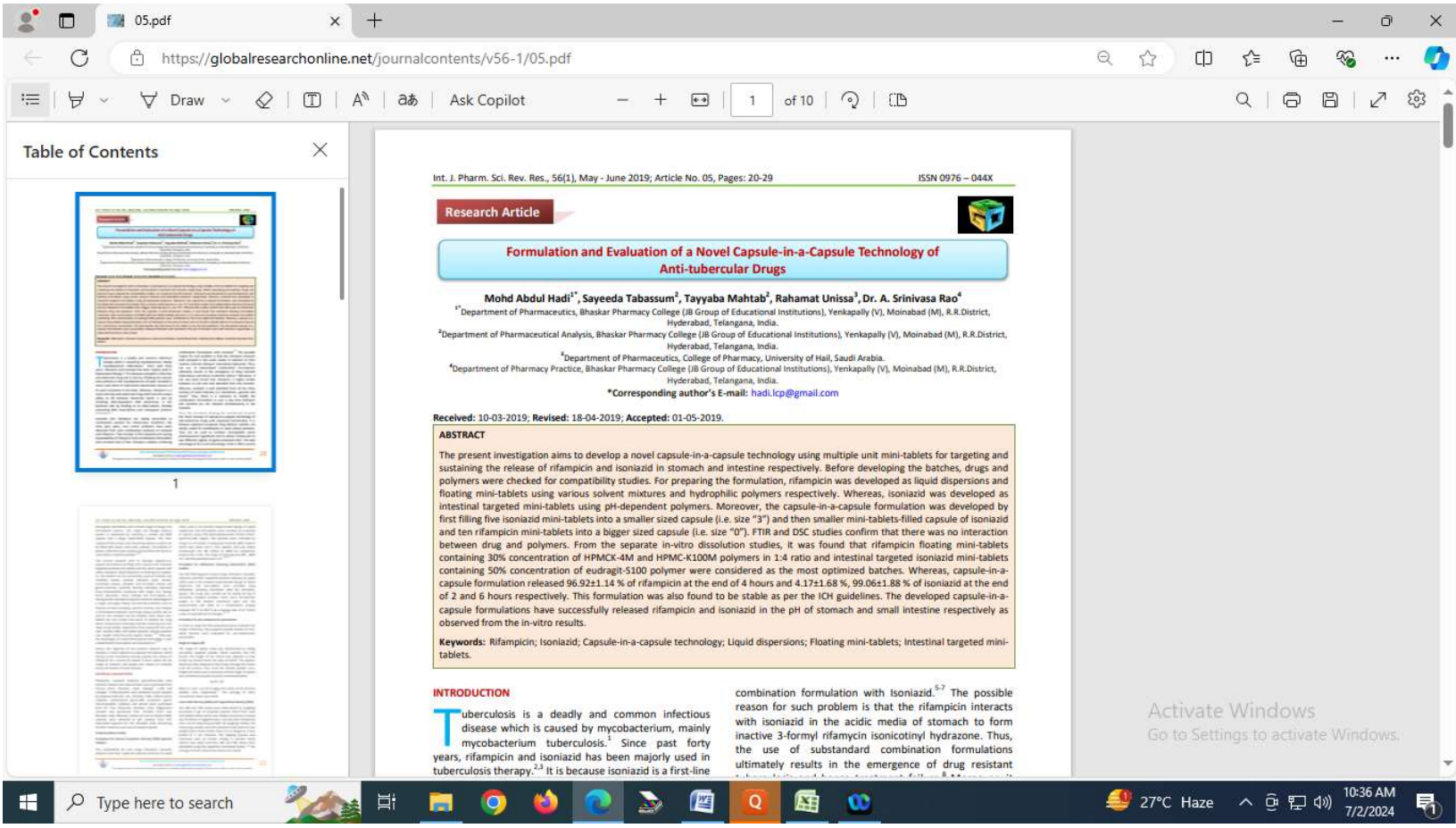

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1

Int. J. Pharm. Sci. Rev. Res., 56(1), May - June 2019; Article No. 05, Pages: 20-29 ISSN 0976 – 044X

Research Article

Formulation and Evaluation of a Novel Capsule-in-a-Capsule Technology of Anti-tubercular Drugs

Mohd Abdul Hadi[1*], Sayeeda Tabassum[2], Tayyaba Mahtab[2], Rahamat Unissa[3], Dr. A. Srinivasa Rao[4]

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ABSTRACT

The present investigation aims to develop a novel capsule-in-a-capsule technology using multiple unit mini-tablets for targeting and sustaining the release of rifampicin and isoniazid in stomach and intestine respectively. Before developing the batches, drugs and polymers were checked for compatibility studies. For preparing the formulation, rifampicin was developed as liquid dispersions and floating mini-tablets using various solvent mixtures and hydrophilic polymers respectively. Whereas, isoniazid was developed as intestinal targeted mini-tablets using pH-dependent polymers. Moreover, the capsule-in-a-capsule formulation was developed by first filling five isoniazid mini-tablets into a smaller sized capsule (i.e. size "3") and then smaller mini-tablets-filled capsule of isoniazid and ten rifampicin mini-tablets into a bigger sized capsule (i.e. size "0"). FTIR and DSC studies confirm that there was no interaction between drug and polymers. From the separate in-vitro dissolution studies, it was found that rifampicin floating mini-tablets containing 30% concentration of HPMCK-4M and HPMC-K100M polymers in 1:4 ratio and intestinal targeted isoniazid mini-tablets containing 50% concentration of eudragit-S100 polymer were considered as the most optimized batches. Whereas, capsule-in-a-capsule formulation released 96.92±1.14 % of rifampicin at the end of 4 hours and 4.17±1.68 %, 99.06±1.88 % of isoniazid at the end of 2 and 6 hours respectively. This formulation was also found to be stable as per the ICH guidelines. The developed capsule-in-a-capsule formulations have successfully released rifampicin and isoniazid in the pH of stomach and small intestine respectively as observed from the in-vitro results.

Keywords: Rifampicin; Isoniazid; Capsule-in-a-capsule technology; Liquid dispersions; Floating mini-tablets; Intestinal targeted mini-tablets.

INTRODUCTION

Tuberculosis is a deadly and common infectious disease which is caused by mycobacterium, mainly mycobacterium tuberculosis.[1] Since past forty years, rifampicin and isoniazid has been majorly used in tuberculosis therapy.[2,3] It is because isoniazid is a first-line combination formulation with Isoniazid.[5-7] The possible reason for such problem is that the rifampicin interacts with isoniazid in the acidic media of stomach to form inactive 3-formyl rifamycin isonicotinyl hydrazone. Thus, the use of substandard combination formulations ultimately results in the emergence of drug resistant

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C. Nagamani*, K. Sumalatha, Naveed unnisa, K.Tharun bhargav

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2. A REVIEW ON IMPACT OF NANOTECHNOLOGY BASED NANOMATERIAL'S IN COSMETIC DELIVERY

Aditya Sharma, Priti Tiwari, Vaibhav Rastogi, Alka Lohani

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Table of Contents

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CORONAVIRUS: ORIGIN, SPREAD, DIAGNOSTIC TESTS, LIFE CYCLE, TREATMENT AND PREVENTIVE MEASURES FOR COVID-19

C. Nagamani*, K. Sumalatha, Naveed unnisa, K.Tharun bhargav

Bhaskar Pharmacy College, Yenkapally, Moinabad, Hyderabad - 500075, Telangana, India.

ABSTRACT

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).It was first identified in Wuhan, China, and has since spread globally, resulting in an ongoing pandemic. The World Health Organization (WHO) on March 11, 2020, has declared the novel coronavirus (COVID-19) outbreak a global pandemic. According to the source, SARS-CoV-2 has an incubation period of 2 to 14 days. This means that someone who ... the virus may come in contact with many people before symptoms begin. The virus is primarily spread between people during close contact, often via small droplets produced by coughing,sneezing, and talking.To date, there are no specific vaccines or medicines for COVID-19 but by using some anti-viral and anti malarial drugs such as hydrochloroquine if ... hydroxychloroquine it can be treated. ... epidemic preventive measures are epidemic lockdown and social distancing.

Keywords: COVID-19, SARS-CoV-2, epidemic ... tion and control, social distancing, epicenter lockdown.

INTRODUCTION

Corona viruses belong to the ... more severe illness ... been detected in neonates, elderly people ... people ... with pre-existing illnesses (human ...) that are particularly prevalent ... include ... 43, OC43, and HKU1.The name ... coronavirus ... arises from the crown-like projections on the surface ... Corona in Latin means "halo" .

... pisoniviricetes, family:Corona viridae, ... orthocoronavirae and are characterized by causing respiratory tract infections ranging from mild diseases such as common cold to pneumonia with a lethal outcome. The ... SARS-CoV-2 virus is a single-stranded RNA beta-coronavirus, similar to SARS-CoV and MERS-

Origin and cause

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FORMULATION AND EVALUATION OF TRANSDERMAL PATCH OF PIOGLITAZONE HCl

Priyanka Vasave*, Dr Surajj Sarode and Dr. S.D. Barhate

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A NEW HPLC METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF SOFOSBUVIR IN TABLET DOSAGE FORM

Narottam Pal*, Tayyaba Mahtab, Sayeeda Tabasum, Sumaiyya Saleem and A. Srinivasa Rao

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ASSESSMENT OF SERUM TESTOSTERONE LEVEL IN MALES WITH IDIOPATHIC ANTERIOR URETHRAL STRICTURE DISEASE AND ITS EFFECT ON STRICTURE SEVERITY

***Dr. Ravi Pandey, Dr. Dharmendra Jangid, Dr. Vinay Tomar and Dr. Sher Singh Yadav**

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SYSTEMIC ENZYME THERAPY WITH TRYPSIN-BROMELAIN-RUTOSIDE COMBINATION TO COUNTER POST-OPERATIVE WOUND INFLAMMATION – A RANDOMISED ACTIVE-CONTROLLED MULTICENTRE TRIAL

Girish D Bakhshi, Shashank Tiwari, Rajesh Kumar Prajapati, Girish H Rudrappa, Mrutyunjay I. Uppin*, Pratik J Vinchhi, Shrihari A Dhorepatil, Hemant L Dhusia, Gautam V Daftary, Ganesh H Divekar, James John and Pratik P Wadivkar

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1

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Research Article
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A NEW HPLC METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF SOFOSBUVIR IN TABLET DOSAGE FORM

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ABSTRACT

A simple, accurate, rapid and precise isocratic reverse phase liquid chromatographic method has been developed and validated for the determination of Sofosbuvir in tablet dosage form. The chromatographic separation was carried out with a Kromasil C18 column (250 mm x 4.6 mm, 5µm), a mixture of 0.1% ortho phosphoric acid: acetonitrile in the ratio of 30:70 as mobile phase, at a flow rate of 1.0 ml/minute maintaining the temperature at 30°c. UV detection was carried out at 260 nm. The retention time was found to be 2.576 for Sofosbuvir. The method was validated according to ICH guidelines and the acceptance criteria, constants for accuracy, precision, linearity, robustness, limit of detection, limit of quantification and ruggedness were found to be in all cases. The % RSD values for Sofosbuvir in precision studies was found to be 0.70%. The linearity of the calibration curve for the analyte in the desired concentration range was found good (r^2=0.999). The higher recovery and value of low relative standard deviation confirm the suitability of the method for routine evaluation of Sofosbuvir in pharmaceutical dosage forms.

KEYWORDS: Sofosbuvir, HPLC, Method development, validation.

INTRODUCTION

Sofosbuvir (SBR) is a pro drug.[1-5] nucleotide analog, an important part used as combination therapy to treat cases

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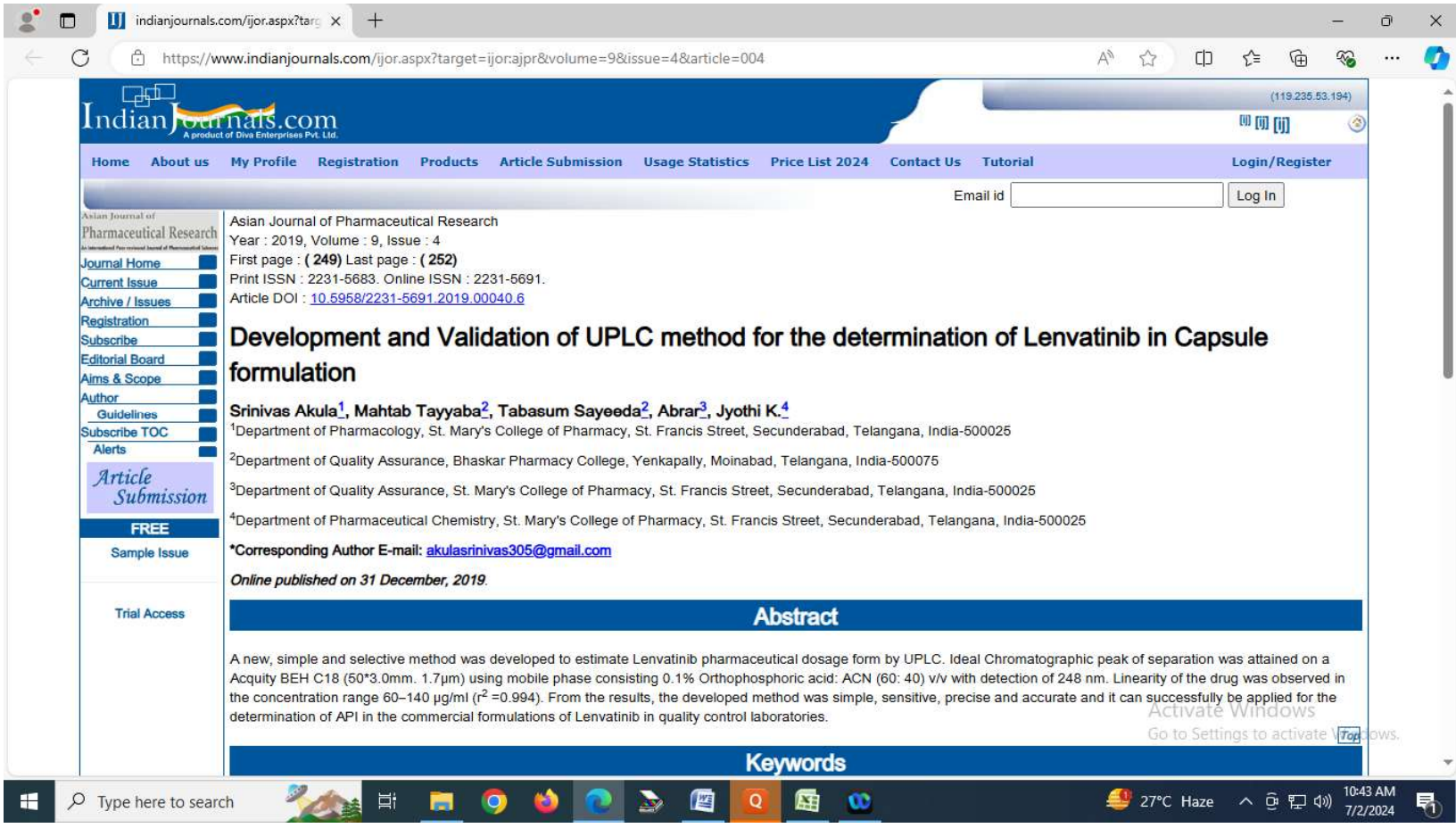

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Development and Validation of UPLC method for the determination of Lenvatinib in Capsule formulation

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Online published on 31 December, 2019.

Abstract

A new, simple and selective method was developed to estimate Lenvatinib pharmaceutical dosage form by UPLC. Ideal Chromatographic peak of separation was attained on a Acquity BEH C18 (50*3.0mm. 1.7µm) using mobile phase consisting 0.1% Orthophosphoric acid: ACN (60: 40) v/v with detection of 248 nm. Linearity of the drug was observed in the concentration range 60–140 µg/ml (r^2 =0.994). From the results, the developed method was simple, sensitive, precise and accurate and it can successfully be applied for the determination of API in the commercial formulations of Lenvatinib in quality control laboratories.

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Keywords

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TITLE:

NEW METHOD DEVELOPMENT AND VALIDATION FOR SIMULTANEOUS DETERMINATION OF ASPIRIN, ATORVASTATIN AND CLOPIDOGREL IN CAPSULE DOSAGE FORM BY HPLC

AUTHORS:

Tayyaba Mahtab, SK. Ershad Ahmed, Sayeeda Tabasum, N. Pal*, A. Srinivasa Rao

ABSTRACT:

Abstract: A simple, accurate, rapid and precise isocratic reverse phase high performance liquid chromatographic method has been developed and validated for simultaneous determination of aspirin, atorvastatin and clopidogrel in capsule dosage form. The chromatographic separation was carried out on an Inertsil ODS analytical column (250×4.6mm,5µm) with a mixture of solvents phosphate buffer (pH 3.15 adjusted with o-phosphoric acid), acetonitrile and methanol (40:40:20 v/v/v) as mobile phase, at a flow rate of 1.0 ml/minute maintaining the temperature at 30°c. UV detection was performed at 240 nm. The retention times were 2.4, 3.5 and 4.5 for atorvastatin, aspirin and clopidogrel respectively. The method was validated according to ICH guidelines and the acceptance criteria of results for accuracy, precision, linearity, robustness, limit of detection, limit of quantification and ruggedness were met in all cases. The % RSD values for atorvastatin, aspirin and clopidogrel were found to be 0.101%, 0.547% and 0.515% respectively. The linearity of the calibration curve for each analyte in the desired concentration range was good (r2>0.999). The high recovery and value of low relative standard deviation confirm the suitability of the method for routine evaluation of aspirin, atorvastatin and clopidogrel in pharmaceutical dosage forms. Keywords: Aspirin, atorvastatin, clopidogrel, simultaneous, HPLC.

FULL TEXT

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NEW METHOD DEVELOPMENT AND VALIDATION FOR SIMULTANEOUS DETERMINATION OF ASPIRIN, ATORVASTATIN AND CLOPIDOGREL IN CAPSULE DOSAGE FORM BY HPLC

Tayyaba Mahtab[1], SK. Ershad Ahmed[2], Sayeeda Tabasum[1], N. Pal[3]*, A. Srinivasa Rao[4]

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Abstract:

A simple, accurate, rapid and precise isocratic reverse phase high performance liquid chromatographic method has been developed and validated for simultaneous determination of aspirin, atorvastatin and clopidogrel in capsule dosage form. The chromatographic separation was carried out on an Inertsil ODS analytical column (250×4.6mm,5µm) with a mixture of solvents phosphate buffer (pH 3.15 adjusted with o-phosphoric acid), acetonitrile and methanol (40:40:20 v/v/v) as mobile phase, at a flow rate of 1.0 ml/minute maintaining the temperature at 30°c. UV detection was performed at 240 nm. The retention times were 2.4, 3.5 and 4.5 for atorvastatin, aspirin and clopidogrel respectively. The method was validated according to ICH guidelines and the acceptance criteria of results for accuracy, precision, linearity, robustness, limit of detection, limit of quantification and ruggedness were met in all cases. The % RSD values for atorvastatin, aspirin and clopidogrel were found to be 0.101%, 0.547% and 0.515% respectively. The linearity of the calibration curve for each analyte in the desired concentration range was good (r^2>0.999). The high recovery and value of low relative standard deviation confirm the suitability of the method for routine evaluation of aspirin, atorvastatin and clopidogrel in pharmaceutical dosage forms.

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Method development and validation of combination of sofosbuvir and velpatasvir by RP-HPLC method

Shirisha Bhavani*[1], [2]A. Srinivasa Rao, [1]A. Kavitha, [1]B.Haritha, [1]Burchu Mary Sunitha, [1]Kandi Kanti Manisha, [1]N. Swetha

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Method development and validation of raltegravir by RP-HPLC method

Shirisha Bhavani*[1], A. Srinivasa Rao[2], B.Sharone Aneeta[1], G. Sumanth Reddy[1], Mohd Azhaniddin[1], B. Basanth Reddy[1], T.Arun[1]

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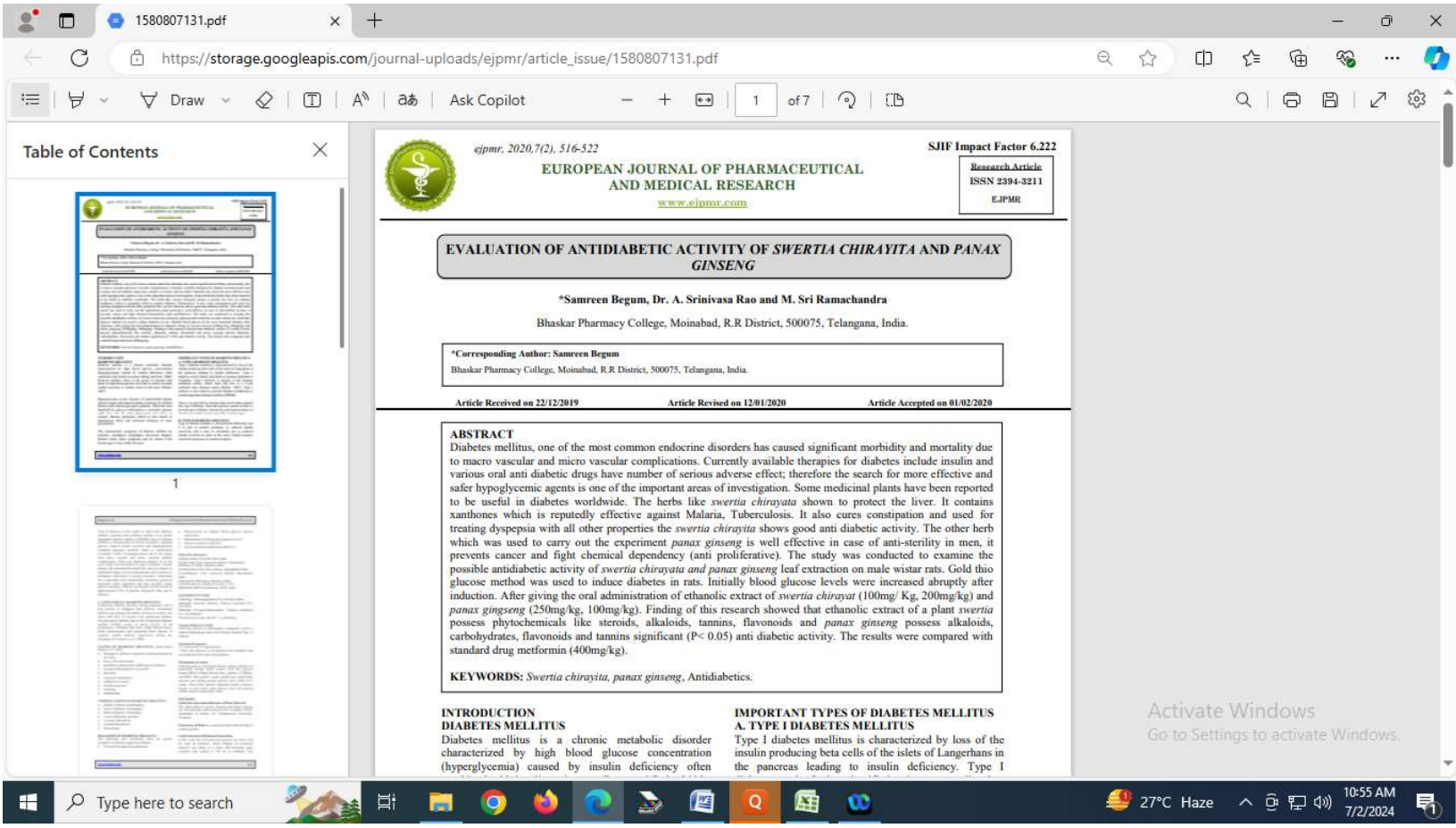

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1

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Research Article
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EVALUATION OF ANTIDIABETIC ACTIVITY OF *SWERTIA CHIRAYITA* AND *PANAX GINSENG*

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ABSTRACT

Diabetes mellitus, one of the most common endocrine disorders has caused significant morbidity and mortality due to macro vascular and micro vascular complications. Currently available therapies for diabetes include insulin and various oral anti diabetic drugs have number of serious adverse effect; therefore the search for more effective and safer hypoglycemic agents is one of the important areas of investigation. Some medicinal plants have been reported to be useful in diabetes worldwide. The herbs like *swertia chirayata* shown to protect the liver. It contains xanthones which is reputedly effective against Malaria, Tuberculosis. It also cures constipation and used for treating dyspepsia with all other properties the *swertia chirayita* shows good anti diabetic activity. The other herb which was used to carry out the experiment *panax ginseng* is well effective in case of anti-sterility in men, it prevents cancer and fight chemical dependency (anti proliferative). The study was conducted to examine the possible antidiabetic activity of *swertia chirayata and panax ginseng* leaf extraction on male wistar rats. Gold thio glucose method was used to induce diabetes in rats. Initially blood glucose levels were increased abruptly after induction. After giving the oral administration of ethanolic extract of *swertia chirayat* (100mg/ Kg, 200mg/kg) and *panax gingseng* (250mg/kg, 100mg/kg). Finding of this research showed that ethanolic extract of a plant *swertia* possess phytochemicals like steroids, alkaloids, tannins, flavonoids and *panax ginseng* possess alkaloids, carbohydrates, flavonoids and tannins significant ($P< 0.05$) anti diabetic activity. The results were compared with standard drug metformin (400mg/kg).

KEYWORDS: *Swertia chirayita, panax ginseng*, Antidiabetics.

INTRODUCTION

DIABETES MELLITUS

Diabetes mellitus is a chronic metabolic disorder characterized by high blood glucose concentration (hyperglycemia) caused by insulin deficiency often

IMPORTANT TYPES OF DIABETES MELLITUS

A. TYPE 1 DIABETES MELLITUS

Type I diabetes mellitus is characterized by loss of the insulin producing beta cells of the islets of Langerhans in the pancreas leading to insulin deficiency. Type I

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QUANTITATIVE DETERMINATION OF QUERCETIN A BIOMARKER IN METHANOLIC EXTRACT OF *LAGERSTROEMIA LANCEOLATA* AND *LAGERSTROEMIA PARVIFLORA* LEAVES BY HPTLC METHOD

Shubangi W. Jadhav [1]*, R. B. Jadhav [2], Srinivas Rao [3]

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ABSTRACT

In Indian Ayurvedic system, *Lagerstroemia lanceolata* (*L. lanceolata*) and *Lagerstroemia parviflora* (*L. parviflora*) are well-known plants used for major and minor ailments. Quercetin identified from the vast plethora of plant extracts has proved to possess ethno pharmacological relevance. The present investigation is to estimate biologically active flavonoid compound, quercetin in methanolic leaves extract of *L. lanceolata* and *L. parviflora* by using high-performance thin-layer chromatography (HPTLC). After extraction and phytochemical screening, the extracts were subjected to quantification for the presence of quercetin by HPTLC. Pre coated silica gel 60 F254 is used as a stationary phase and toluene: ethyl acetate: formic acid in ratio of 7: 5: 1 is used as a mobile phase. Densitometric estimation and quantification of quercetin was carried out at 254 nm. The standard Rf value of quercetin is 0.64. The total peak area of the standard, quercetin was compared and the corresponding peak areas of *L. lanceolata* and *L. parviflora* extracts were estimated to be 390.6 and 5442.8 respectively. A good linear relationship 0.988 was obtained between the concentration ranges of 0.2-1.0 µg. This HPTLC method was found to be simple and convenient for rapid screening of active compounds and quantification of the investigated flavonoids in *L. lanceolata* and *L. parviflora*.

Keywords: *Lagerstroemia lanceolata*, *Lagerstroemia parviflora*, HPTLC, Flavonoid compounds, Quercetin.

INTRODUCTION

Nature still obliges as the man's primary source for the cure of his ailments. Research in preventive medicine showed the importance of functional nutrition in reducing the risk factor of certain chronic diseases. Innate defense system of the human body may be insufficient for the damage caused by continued oxidative stress[1]. Flavonoids are a group of polyphenolic compounds, which are extensively dispersed throughout the plant kingdom. Till date about 300 varieties of flavonoids are known[2]. mortality[8,9]. Quercetin in combination with other flavonoids, inhibits a number of enzymes like bradykinin[10], tyrosine kinase[11]and 5'- nucleotidase activity[12]. *L. lanceolata* Wall (Lythraceae) is a moderate to large deciduous tree, sometimes attaining 30 meters in height and 2.4 to 3.0 meters in girth with a clean cylindrical bole of 12 to 15 meters. It is found from Bombay to Kerala and in the hills of Deccan Peninsula up to an altitude of 1,200 meters. Bark is smooth, greenish or yellowish white, exfoliating in papery strips; leaves elliptic- lanceolate or broadly ovate, 6.2 to 10.0 cm x 1.8 to 5.0 cm, coriaceous, glabrous,

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EVALUATION OF ANTI INFLAMMATORY AND ANALGESIC ACTIVITIES OF THE EXTRACT PREPARED FROM *ALOYSIA POLYSTACHYA* IN EXPERIMENTAL ANIM ALS

Sara Parveen*, M. Sri Ramachandra and Dr. A. Srinivasa Rao

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ABSTRACT

Aloysia polystachya used as an appetite suppressant herb for millennia. It also has antioxidant, ant diabetic, and nootropic actions. It is proved that it is a natural anti obesogenic agent and is widely consumed in India. Its actions like anti-atherosclerotic is of high medicinal value. The phytochemical screening of extract shows the presence of alkaloids, phytosterols, phenolic compunds and tannins using various methods. In the present work an attempt has been made to evaluate the anti inflammatory, analgesic activities of ethanolic extract of *aloysia polystachya* (100mg/kg, 200mg/kg) and the results were found to be positive. The results were compared with the standard drug indomethacin (10mg/kg), pentazocin (10mg/kg) and aspirin (10mg/kg). Hence, *aloysia polystachya* contains anti inflammatory and analgesic activity. The present work was done to demonstrate the anti inflammatory and analgesic activity of the ethnolic extract obtained from the leaves of *aloysia polystachya* (verbenaceae). Inflammation was induced by carrageenan induced paw edema and pain was induced by eddy's hot plate and tail flick method. Thermal and radiant heat is used in hot plate and tail flick method respectively.

KEYWORDS: *Aloysia polystachya*, analgesic, anti inflammatory activity.

1. INTRODUCTION

Pain is the most common reason for physician consultation. It is a major symptom in many medical conditions. It can significantly interfere with a person's quality of life and general functioning.[1] It is a part of the body's defence system, producing are flexiveretraction from the painful stimulus, and tendencies to protect the affected body part while it heals, and avoid that harmful situation in the future.[2,3] Pain is the most common by progressive destruction and recovery of the injured tissue from the inflammatory response.[7]

Though a variety of chemical mediators or signalling molecules such as histamine, serotonin, leukotrienes, prostaglandins are involved in the inflammatory response the mechanism of inflammation injury is attributed to release of ROS (reactive oxygen species) from activated neutrophils and macrophages. The over production of

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Table of Contents

1

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Prevalence of electrolyte imbalance in hospitalized patients and relationship to outcome and duration of stay in orthopaedic department

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Abstract

Background: Electrolyte imbalance is a severe and life-threatening condition, but its investigation and evaluation is often inadequate and inappropriate. The aim of the study is to identify the prevalence of electrolyte imbalance (Na & K) in hospitalized patients and to evaluate the relationship to their outcome and duration of stay in orthopedic department in a tertiary care hospital.

Materials and methods: 150 patients of both genders and all age groups excluding pediatric and neonate patients were evaluated. Study was carried out in Udai Omni hospital, Hyderabad between mid-december 2018 to march 2019.

Results: 150 patients were evaluated during the study period and electrolyte imbalance was found in 38 patients that is prevalence of electrolyte imbalance was 25.33%. This study has shown equal gender distribution of electrolyte imbalance (19 cases each) and are most commonly seen in elderly patients of age >60years (52.63%). The most common comorbid conditions seen in these 38 patients are Diabetes mellitus (DM), Hypertension (HTN), Hypothyroidism, Chronic kidney disease (CKD) etc. Most of the cases are seen with combined DM and HTN. Among all the electrolyte imbalance cases, the most commonly seen type of electrolyte imbalance are Hyponatremia and Hypokalemia (11 cases each). Most of the cases of electrolyte imbalance are seen pre-operatively. This study showed almost equal gender distribution of Hyponatremia. Distribution of Hypokalemia cases is relatively high in males. Out of 38 cases, 10 (26%) cases have shown increased duration of stay due to electrolyte imbalance. Among 38 cases, most commonly observed cause of electrolyte imbalance is CKD followed by these of diuretics. In this study most common presenting symptoms are constipation, nausea, vomiting, headache, confusion, weakness, dizziness and some patients were asymptomatic.

Conclusion: In this prospective, observational study on orthopaedic patients, prevalence of different electrolyte imbalance are seen, in which Hyponatremia and Hypokalemia are more common in hospitalized patients. Electrolyte imbalance complicates the health conditions of the patients and leads to increased falls and fractures and duration of hospital stay.

Keywords: Prevalence, electrolyte imbalance, orthopaedic, duration of stay, causes, symptoms

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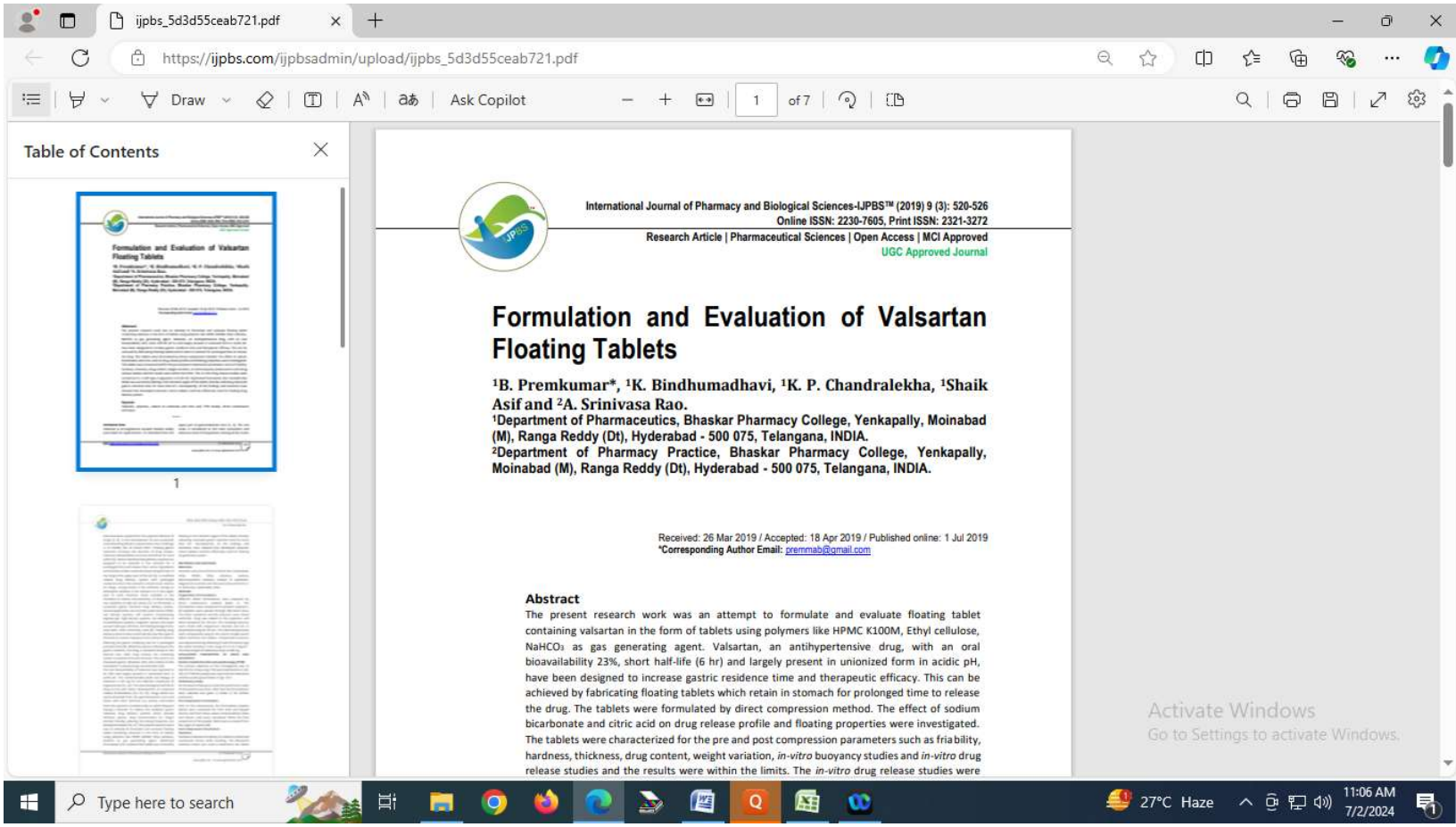

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Table of Contents

1

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Formulation and Evaluation of Valsartan Floating Tablets

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Abstract

The present research work was an attempt to formulate and evaluate floating tablet containing valsartan in the form of tablets using polymers like HPMC K100M, Ethyl cellulose, $NaHCO_3$ as gas generating agent. Valsartan, an antihypertensive drug, with an oral bioavailability 23%, short half-life (6 hr) and largely present in unionized form in acidic pH, have been designed to increase gastric residence time and therapeutic efficacy. This can be achieved by fabricating floating tablets which retain in stomach for prolonged time to release the drug. The tablets were formulated by direct compression method. The effect of sodium bicarbonate and citric acid on drug release profile and floating properties were investigated. The tablets were characterized for the pre and post compression parameters such as friability, hardness, thickness, drug content, weight variation, *in-vitro* buoyancy studies and *in-vitro* drug release studies and the results were within the limits. The *in-vitro* drug release studies were

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Table of Contents

1

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FORMULATION AND EVALUATION OF DELAYED RELEASE TABLETS OF LANSOPRAZOLE

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ABSTARCT

The objective of the study was an attempt to formulate and evaluate delayed release tablets of lansoprazole which is a benzimidazole anti ulcer agent and is one of the most widely used drugs for treating mild and severe ulcers. The stability of lansoprazole a proton pump inhibitor is a function of pH and it rapidly degrades in acidic medium of the stomach, but has acceptable stability in alkaline conditions. The present study demonstrates that the lansoprazole tablets could be successfully intestine targeted by using pH dependent polymers in different concentrations. The drug and excipient compatibility study was performed by FT-IR and study revealed that there was no interaction between drug & excipient. The tablets were evaluated for various parameters like hardness, friability, weight variation, percentage drug content and *in-vitro* disintegration time, *in-vitro* dissolution study, drug release kinetic study and stability study. By observing the dissolution profile for all the formulations, F1 was the better formulation. From the result of this study it may be concluded that the colon targeted drug delivery tablets using a combination of two polymers in optimized concentrations can be used to increase the delayed action of drug release to deliver the drug in a delayed manner.

KEYWORDS: Lansoprazole, polymers, direct compression technique, FTIR & *in-vitro* studies.

INTRODUCTION

The term "drug delivery" can be defined as "the techniques that are used to get the therapeutic agents inside the body". The Oral Solid Dosage forms are the preferred route of administration for many drugs and

2. Colonic release systems

MATERIAL AND METHODS

Materials

Lansoprazole was obtained from Chandra labs,

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Table of Contents

1

Int. J. Pharm. Sci. Rev. Res., 57(1), July - August 2019; Article No. 07, Pages: 55-59 ISSN 0976 – 044X

Research Article

A New Simple RP-HPLC Method Development and Validation of Empagliflozin in Bulk and it's Tablet Dosage Form

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ABSTRACT

The primary important objective of the present research work is to develop simple, specific, rapid, accurate and sensitive reverse phase HPLC method and validated for the qualitative and quantitative determination of empagliflozin in its active pharmaceutical ingredient and tablet dosage form according to ICH guidelines. An isocratic separation was done by using Phenomenex C18 column possess 75 x 4.6 mm, 2.6 µ,100 A0 dimensions with a mobile phase composition of water: acetonitrile (10:90% v/v) at a flow rate of 1ml/min and response detected by using 261 nm wavelength as absorption maximum. The Retention time of empagliflozin was found to be 2.84 minutes, LOD and LOQ were observed at 1.5 µg/ml and 4.6 µg/ml concentration respectively, linear curve was observed in the concentration range of 10-60 µg/ml with correlation coefficient of 0.99. The percentage recovery (accuracy) was in the range of 98.3- 102% and the % RSD was observed to be less than 2%. The proposed method was validated for accuracy, precision, sensitivity, linearity and robustness and successfully employed for quantitative determination of empagliflozin in tablet dosage form in quality control department of pharmaceutical industry.

Keywords: RP-HPLC, Retention Time, Limit of detection, Limit of quantification, Robustness.

INTRODUCTION

Chemically empagliflozin is (1S)-1,5-Anhydro-1-(4-chlor-3-(4-[(3S)-tetrahydro-3-furanyloxy]benzyl) phenyl)-D-glucitol works as sodium-glucose co-transporter 2 (SGLT2) inhibitors offer an insulin-independent component for improving blood glucose levels, since they advance urinary glucose discharge (UGE) by restraining glucose reabsorption in the kidney. Notwithstanding glucose control, SGLT2 inhibitors are related with weight reduction and circulatory strain decreases, and don't build the danger of hypoglycemia[1].

Chromatographic method is the most effective popular method for the analysis of drug substance and drug product; hence a new RP- HPLC method was developed and validated for the estimation of empagliflozin.[7]

MATERIALS AND METHODS

The empagliflozin reference standard (claim 99.18%) was provided by HETERO Drugs. Tablets of empagliflozin (JARDIANCE -10mg) were purchased from a local pharmacy. HPLC grade acetonitrile was obtained from Finar Chemicals Limited, Ahmadabad, India. All the glass wares used in this research work were made of Borosilicate

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Volume 8, Issue 8, 1162-1180 Research Article ISSN 2278 – 4357

NUTRITIONAL ASSESSMENT AND MANAGEMENT IN CHRONIC LIVER DISEASE

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ABSTRACT

Liver plays major role in metabolism of nutrients their distribution and absorption. Malnutrition is common in patients with chronic liver disease and it is an important prognostic indicator. The aim of the study was to assess the nutritional status of the patients with chronic liver disease by using Assessment parameters like MNA (mini nutrition assessment tool that classify nutritional status of the patient into three: normal nutritional status, at risk of malnutrition, malnourished, and also based Anthropometric measurements (BMI, MAC, calf circumference), laboratory and cinical findings. The present study is prospective observational study. The patients are recruited from gastroenterology department Apollo hospitals, jubilee hills from October to march 2018. The sample of study

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Research Article

A Prospective Study on Alcohol Drinking Patterns, Dependency and Disease Severity in Alcohol Related Liver Cirrhosis

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Abstract:

Aim: To determine the relation between the alcohol dependency and alcoholic liver disease states objectively with well-defined scoring systems.

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Table of Contents

1

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A PROSPECTIVE OBSERVATIONAL STUDY ON PREVALENCE OF CHRONIC KIDNEY DISEASE IN DIABETES MELLITUS

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ABSTRACT

Background: Diabetes is a metabolic disorder that results from deficiency in insulin production and insulin resistance. Chronic Kidney Disease is defined as kidney damage or glomerular filtration rate (GFR) <60 mL/min/1.73 m^2 for 3 months or more. In 2013, diabetes led to more than 51,000 new cases of kidney failure and over 247,000 people are currently living with kidney failure resulting from diabetes.[1] **Methodology:** This study was conducted with the aim to assess the percentage of population at risk of Chronic Kidney Disease in Diabetes Mellitus, to determine the stages of Chronic Kidney Disease and to assess the quality of life of the patient that who are diagnosed with Chronic Kidney Disease in Diabetes in Mallareddy Narayana Multispeciality

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Table of Contents

1

WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES
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Volume 7, Issue 9, 1237-1257 Research Article ISSN 2278 – 4357

SYSTEMATIC EVALUATION OF EXCLUSIVE FACTORS ASSOCIATED WITH NON-ADHERENCE TO TREATMENT IN IBD PATIENTS

Bandari Madhuri[1]*, Mudigonda Shirisha Yadav[2], Potharla Ajay Kumar[2], Vishlavath Ganesh Naik[2], Dr. Rupa Banerjee[3] and Dr. A. Srinivasa Rao[4]

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ABSTRACT

Adherence to treatment is a key condition in preventing relapses in inflammatory bowel disease. This study was contrived with the aim to evaluate the exclusive factors associated with non-adherence to treatment in Inflammatory Bowel Disease. A total population of 150 patients were evaluated for this study from Asian Institute of Gastroenterology, to find out the factors causing non-adherence to treatment. A questionnaire concerning demographic, clinical, patient related, medication related, physician related, socioeconomic and psychological assessment of patients were evaluated by using Microsoft Excel 2007. Out of 150 patients 89(59.3%) men and 61(40.6%) women completed

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Volume 7, Issue 7, 1033-1052 Research Article ISSN 2278 – 4357

RATIONALITY ASSESSMENT OF ANTIBIOTIC USE IN MEDICAL AND SURGICAL UNITS AT A MULTISPECIALTY HOSPITAL

Dr. Mohammed Abuzar Ghufran[1]*, Dr. A. V. Kishore Babu[2], Dr. Bedarkar Akshay Prasad[3], Dr. Dasari Naga Venkata Bhavani[3], Dr. Penukula Priyanka[3], Dr. Mohammed Ilyas[3]

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ABSTRACT

This study was contrived with the aim to evaluate antibiotics prescribed for their rationality and appropriateness. The research was conducted to assess the antibiotic prescribing pattern of the physicians in renowned hospital in Hyderabad. This study is descriptive in nature. The population took under study was from the different wards of Care Hospitals, Nampally. The 307 respondents were the patients from which 202 patients were ambushed with different organ and tissue infections admitted in different medical wards were evaluated for rationality according to standard guidelines and remaining 105 patients

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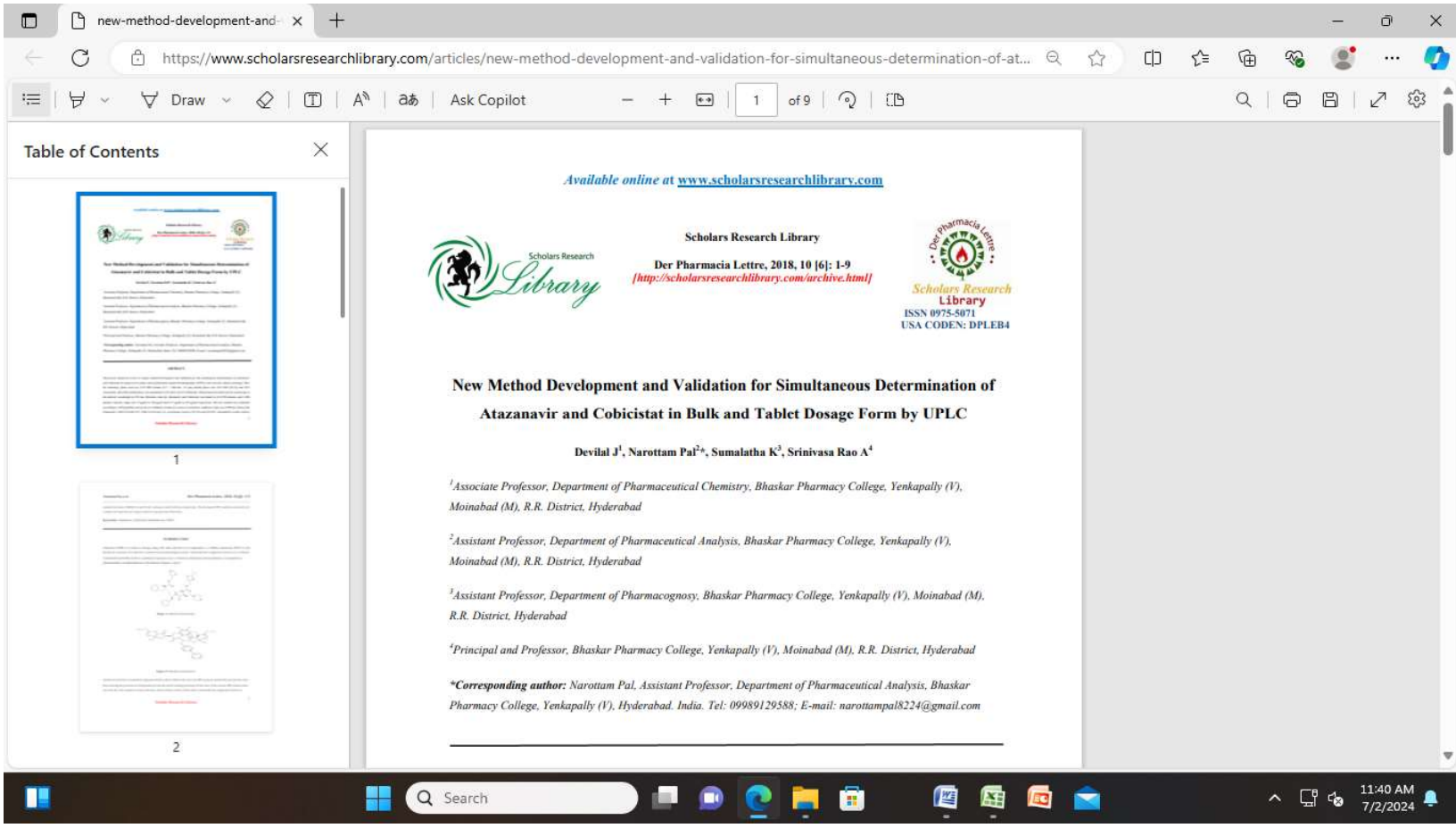

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Table of Contents

1

2

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New Method Development and Validation for Simultaneous Determination of Atazanavir and Cobicistat in Bulk and Tablet Dosage Form by UPLC

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Table of Contents

1

ejbps, 2019, Volume 6, Issue 6, 294-299. **Research Article** **SJIF Impact Factor 4.918**

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DEVELOPMENT AND OPTIMIZATION OF SUSTAINED RELEASE ABACAVIR MATRIX TABLETS

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Article Received on 27/03/2019 **Article Revised on 18/04/2019** **Article Accepted on 10/05/2019**

ABSTRACT
The aim of the present study was to develop and characterize Abacavir sustained release tablets. These Abacavir solid unit dosage forms were prepared by using direct compression technique and by utilizing synthetic polymers such as ethyl cellulose, eudragit and sodium alginate. Abacavir drug is used in the treatment of human immunodeficiency virus (HIV) infection. It is nucleoside reverse transcriptase inhibitors (NRTIs). The prepared tablets were characterized for hardness, thickness, disintegration time and drug release studies. Optimized formulation of drug delivery was 98.70% in 8 hours along with satisfactory results. It was noted that A5 formulation was the best formulation compared with the other formulations based on the drug release studies and physical parameters.

KEYWORDS: Abacavir, Hydroxypropyl methyl cellulose, sodium alginate, direct compression technique, in-vitro drug release studies.

INTRODUCTION

Oralroute is the most preferred route for administration o f drugs. Tablets are the most popular oral formulations available in the market and preferred by the patients and physicians alike. In long- term therapy for the treatment of chronic disease conditions, progressed from immediate release to site specific delivery over a period of time.[5] Abacavir is a carbocyclic synthetic nucleoside analogue used for the treatment of HIV/AIDS. To reduce the frequency of administration and to improve patient compliance, a sustained release formulation of Abacavir is developed.[6]

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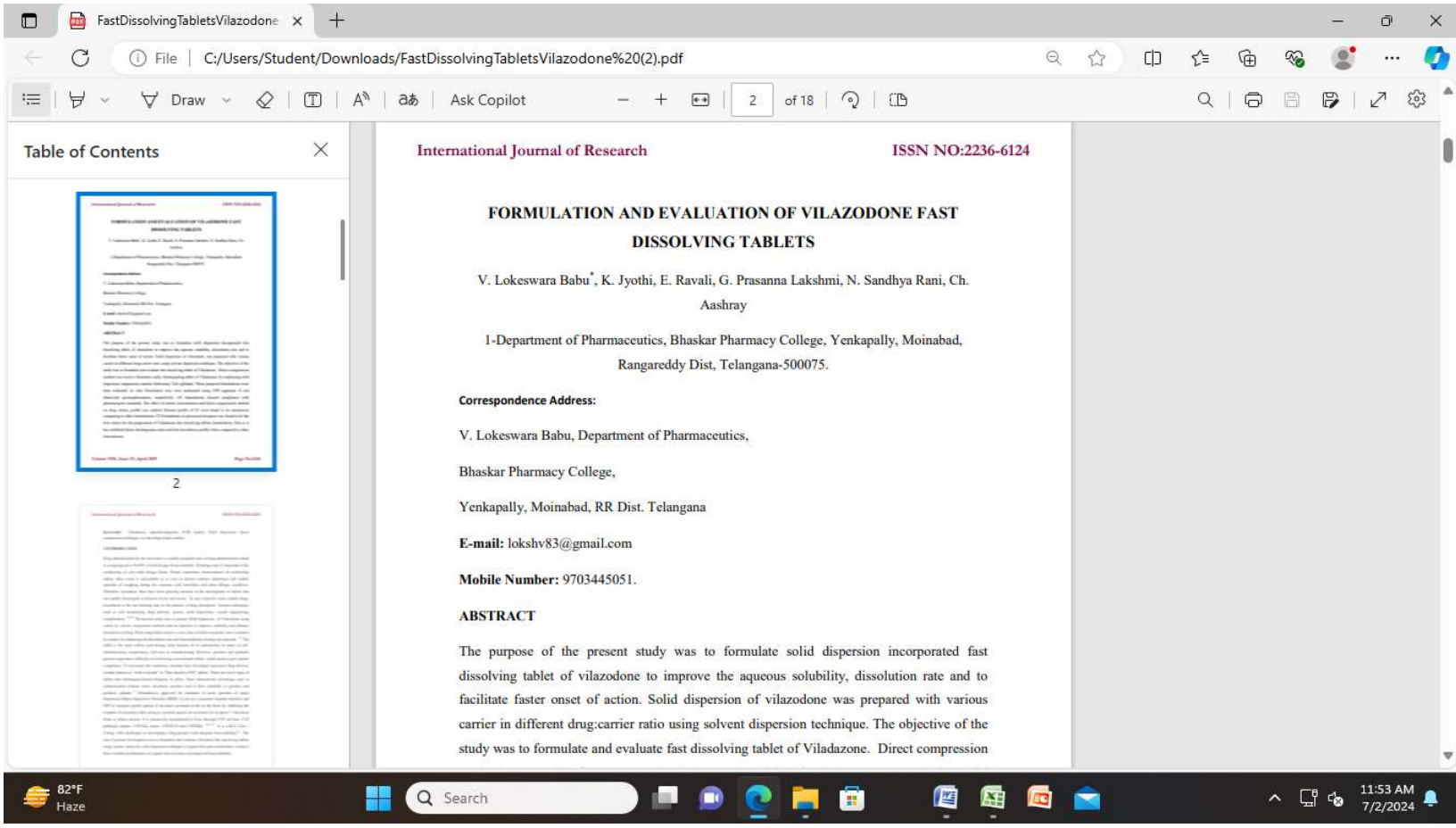

FastDissolvingTabletsVilazodone%20(2).pdf

Table of Contents

2

International Journal of Research ISSN NO:2236-6124

FORMULATION AND EVALUATION OF VILAZODONE FAST DISSOLVING TABLETS

V. Lokeswara Babu*, K. Jyothi, E. Ravali, G. Prasanna Lakshmi, N. Sandhya Rani, Ch. Aashray

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ABSTRACT

The purpose of the present study was to formulate solid dispersion incorporated fast dissolving tablet of vilazodone to improve the aqueous solubility, dissolution rate and to facilitate faster onset of action. Solid dispersion of vilazodone was prepared with various carrier in different drug:carrier ratio using solvent dispersion technique. The objective of the study was to formulate and evaluate fast dissolving tablet of Viladazone. Direct compression

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Table of Contents

1

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FORMULATION AND INVITRO EVALUATION OF GASTRORETENTIVE FLOATING MATRIX TABLETS OF ETODOLAC

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ABSTRACT

In the present work, an attempt has been made to develop *In vitro* Evaluation of Gastroretentive Floating Matrix tablets of Etodolac. Novel method of Gastroretentive Floating Matrix technology was employed to formulate the tablets. All the formulations were prepared by direct compression method using 8mm punch on 8 station rotary tablet punching machine. The blend of all the formulations showed good flow properties such as angle of repose, bulk density, tapped density. The prepared tablets were shown good post compression

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Table of Contents

1

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ChemTech

International Journal of ChemTech Research
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Evaluation of phytosomes containing Ethanolic extract of Aerial parts of *Mukia maderaspatana*

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Abstract : The aim of the present investigation was to formulate *Mukia maderspatana* loaded Phytosome for improved delivery. Phytosomal formulations were developed using different concentration of Cholesterol (1-3%) then optimized and characterized. Particle size, entrapment efficiency and vesicular shape were determined by Malvern Zetasizer, and Scanning Electron Microscopy, respectively. Particle size varied from 175 to 510 nm depending on the concentrations of Cholesterol. Entrapment efficiencies were exhibited of 38.42-84.26%, where it increased with concentration of cholesterol increased. Photomicrographs revealed that optimized Phytosomes were spherical in shape and uniform in size. Based on minimum particle size and maximum entrapment efficiency F9 (3% of Cholesterol concentration and 40% of ethanol concentration) was selected as optimization Phytosomal formulation.

Key Words : *Mukia maderspatana*, Optimization, Characterization, Phytosome.

Introduction:

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Formulation development and comparative evaluation of multiple and single unit tablets of omeprazole magnesium

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Abstract : The aim of the present study was to develop multiple unit particulate system and single unit tablets of omeprazole magnesium as a delayed release dosage form and study the in-vitro release pattern of test product by comparing with the marketed reference product. The work was carried out to delay the release of omeprazole magnesium by using enteric polymer methacrylic acid copolymer type-C. The optimized formula of omeprazole magnesium delayed release tablets were prepared using wet granulation technique for single unit tablets and pellet technology for multiple unit particulate system. The multiple unit pellets and single unit tablets were found to be satisfactory with respect to physical as well as chemical

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Research Article

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FORMULATION AND EVALUATION OF TRAMADOL POROUS TABLETS

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ABSTRACT

The present research work was aimed to develop a porous tablet of tramadol using various polymers. The formulation was optimized by using various concentrations of the disintegrants and other excipients. Menthol was used as the sublimating agent. Absorption maxima was determined to be 272nm and the calibration curve was plotted using the absorbance values of various concentration of the drug. Prior to tablet making, the formulation bled was subjected to preformulation studies which were found to be within the acceptance range indicating the powder has good flow properties. Among all the eight formulations, sixth formulation (F6) having cross carmelose in the concentration of 25mg has the highest release rate where 100.26% of the drug was release within 30 mins similar to eighth formulation but sixth formulation was considered as optimized due to low sublimating agent concentration. Moreover, FT-IR spectrum obtained showed no drug-excipient incompatibility used in preparing the formulations. Therefore, the optimized formulation F6 can be employed for scale up process as the method is simple, easy and cost effective and hence can be used during large scale production.

KEYWORDS: Porous tablet, tramadol, absorbtion maxima, preformulation studies, post formulation studies, stability.

INTRODUCTION

Tramadol is chemically (1R,2R)-2-[(dimethylamino)methyl-1-(3-

MATERIALS AND METHODOLOGY

Materials and Instrumentation

Tramadol standard drug was obtained as a gift sample

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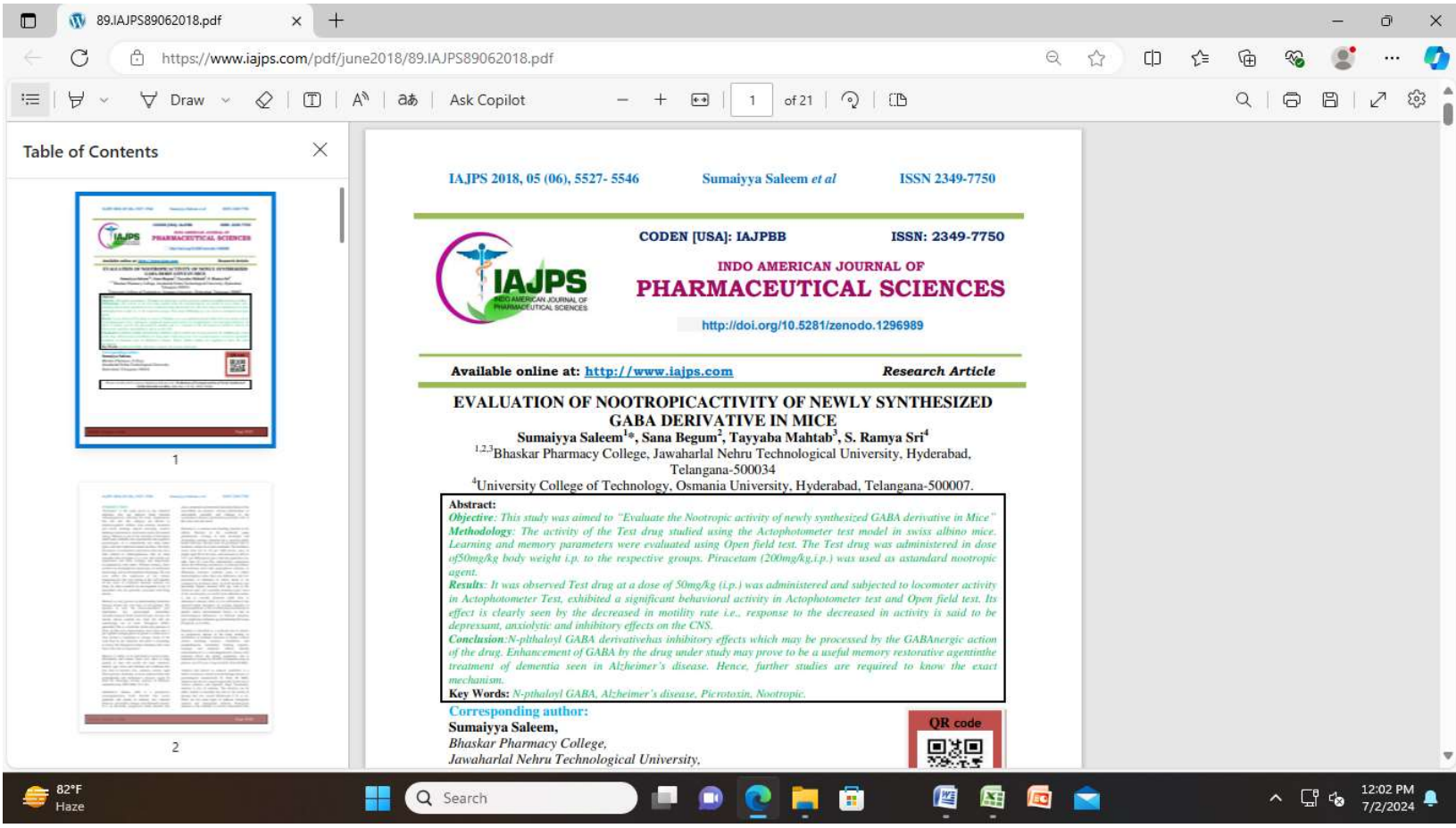

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Table of Contents

1

2

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Available online at: http://www.iajps.com *Research Article*

EVALUATION OF NOOTROPICACTIVITY OF NEWLY SYNTHESIZED GABA DERIVATIVE IN MICE

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[1,2,3]Bhaskar Pharmacy College, Jawaharlal Nehru Technological University, Hyderabad, Telangana-500034

[4]University College of Technology, Osmania University, Hyderabad, Telangana-500007.

Abstract:

Objective: *This study was aimed to "Evaluate the Nootropic activity of newly synthesized GABA derivative in Mice"*

Methodology: *The activity of the Test drug studied using the Actophotometer test model in swiss albino mice. Learning and memory parameters were evaluated using Open field test. The Test drug was administered in dose of50mg/kg body weight i.p. to the respective groups. Piracetam (200mg/kg,i.p.) was used as astandard nootropic agent.*

Results: *It was observed Test drug at a dose of 50mg/kg (i.p.) was administered and subjected to locomoter activity in Actophotometer Test, exhibited a significant behavioral activity in Actophotometer test and Open field test. Its effect is clearly seen by the decreased in motility rate i.e., response to the decreased in activity is said to be depressant, anxiolytic and inhibitory effects on the CNS.*

Conclusion:*N-plthaloyl GABA derivativehas inhibitory effects which may be processed by the GABAnergic action of the drug. Enhancement of GABA by the drug under study may prove to be a useful memory restorative agentinthe treatment of dementia seen in Alzheimer's disease. Hence, further studies are required to know the exact mechanism.*

Key Words: *N-pthaloyl GABA, Alzheimer's disease, Picrotoxin, Nootropic.*

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Research Article

EFFECT OF FORMULATION FACTORS ON ORODISPERSIBLE TRIPTAN FORMULATIONS – NOVEL APPROACH IN TREATMENT OF MIGRAINE

YELLA SIRISHA[1]*, GOPALA KRISHNA MURTHY T E[2], AVANAPU SRINIVASA RAO[3]

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ABSTRACT

Objective: The present research work is an attempt to determine the effect of various diluents and superdisintegrants on drug release of eletriptan orodispersible tablets and designs an optimized formulation using 2^2 factorial design. Further, evaluate the tablets for various pre-compression and post-compression parameters.

Methods: The drug excipient compatibility study was conducted by infrared spectroscopy, differential scanning colorimetry and X-ray diffraction studies were conducted to test the purity of the drug. The tablets were formulated by direct compression method using spray dried lactose, mannitol, microcrystalline cellulose, starch as diluents and crospovidone, croscarmellose sodium, and sodium starch glycolate as superdisintegrants. The powder formulations were evaluated for pre-compression parameters such as bulk density, tapped density, Carr's Index, Hausner's ratio, and angle of repose. The tablets were evaluated for post-compression parameters such as the hardness, thickness, friability, weight variation, and disintegrating time in the oral cavity, *in vitro* drug release kinetics studies, and accelerated stability studies. The formulations were optimized by 2^2 factorial design.

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A Validated HPTLC Method for the Quantification of B-Sitosterol In Leaves, Bark of Putranjiva Roxburghii Wall

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ABSTRACT

Objective: A simple and sensitive high-performance thin-layer chromatography method was developed and validated for the determination of β-sitosterol in Putranjiva roxburghii Wall leaf and bark

Methods: Analysis of samples was performed on TLC aluminium precoated plate (60F 254) by using mobile phase toluene: ethyl acetate: formic acid (9:1:0.1v/v/v). TLC plate derivatized with vanillin sulphuric acid reagent. The method was validated using International Council for Harmonization (ICH) guidelines, including linearity, precision, accuracy, and robustness.

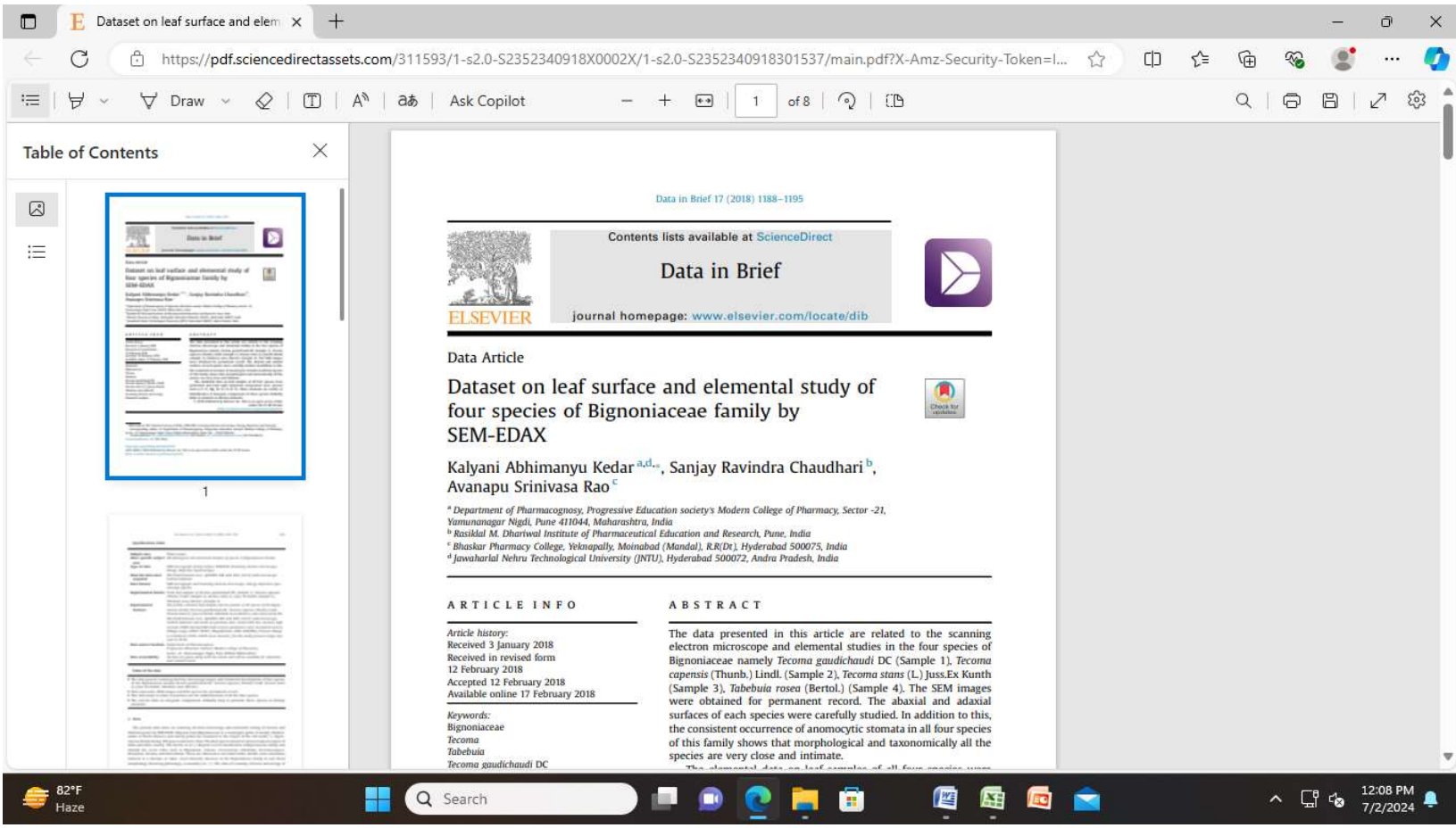
Results: A good linearity relationship was found to be with correlation coefficient (r2) value of 0.9951 for β-sitosterol, from calibration curve it shows presence of 0.16%w/w for β-sitosterol in leaf extract, 0.07% w/w in bark extract of Putranjiva roxburghii Wall (Family:Euphorbiaceae). Limit of detection and limit of quantitation was found to be 0.04, 0.13 ng spot-1 respectively for β-sitosterol. The interday and intraday precision was found to be 1.33%, 1.99% (%RSD). Accuracy of the method was performed by recovery studies at three different concentration levels and the average percentage recovery was found to be 98.05% for β-sitosterol.

Conclusion: The proposed method for the quantitation of β-sitosterol was found to be simple, specific, accurate and robust in Putranjiva roxburghii Wall.

Keywords: Putranjiva roxburghii Wall; Euphorbiaceae; β-sitosterol; HPTLC; Method validation.

I. INTRODUCTION

Euphorbiaceae family having 220 genera and 4,000 plant species found in various tropical regions of India [1-2]. Following genera of Euphorbiaceae are reported as medicinal plants: *Acalypha, Aleurites, Bridelia, Jatropha, phyllantus, Putranjiva, Ricinus* [2-3,4]. The month to women for conception [6]. The bark and the seeds are usefull in antidotal treatment of snake-bite. Its leaves and fruits, stones of this plant have been traditionally used for the treatment of fever, muscle twisting, aphrodisiac, arthralgia and rheumatism [7-9]. It is also used as antinociceptive, antipyretic, anti-inflammatory, antioxidant [10]. This plant has reported



Dataset on leaf surface and elem

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Table of Contents

1

Data in Brief 17 (2018) 1188–1195

Contents lists available at ScienceDirect

Data in Brief

journal homepage: www.elsevier.com/locate/dib

Data Article

Dataset on leaf surface and elemental study of four species of Bignoniaceae family by SEM-EDAX

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ABSTRACT

The data presented in this article are related to the scanning electron microscope and elemental studies in the four species of Bignoniaceae namely *Tecoma gaudichaudi* DC (Sample 1), *Tecoma capensis* (Thunb.) Lindl. (Sample 2), *Tecoma stans* (L.) Juss.Ex Kunth (Sample 3), *Tabebuia rosea* (Bertol.) (Sample 4). The SEM images were obtained for permanent record. The abaxial and adaxial surfaces of each species were carefully studied. In addition to this, the consistent occurrence of anomocytic stomata in all four species of this family shows that morphological and taxonomically all the species are very close and intimate.

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Quality of Life Assessment in Cancer Patients of Regional Centre of Hyderabad City

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Cancer; Quality of life; Hyderabad city; EORTC QLQ- C-30 questionnaire; chemotherapy.

ABSTRACT

The present study was carried out to determine the quality of life in regional cancer patients of Hyderabad city with an objective to create awareness about the various health related issues and financial problems underlying the disease. So that possible measures can be taken by the society and the government in advance to improve the quality of life in cancer patients. The complete data for the present study has been collected for a period of 2 months from Mehdi Nawaz Jung Institute of Oncology and Regional Cancer Centre, Red Hills, Hyderabad, Telangana, India from 192 Females and 32 Males in the age group between 18-70 years. The quality of life of the cancer subjects was assessed using EORTC QLQ- C-30 questionnaire. The observations have shown that the cancer patients in spite of having better functioning and minimum symptoms, their perception was that they had poor quality of life. It is concluded that the therapy should be individualized for each patient not just based upon the type or stage of cancer but also based on the patient's priorities, concerns and symptoms along with treating the disease. In simple words it can be said that the therapy should be patient oriented rather than disease oriented.

INTRODUCTION

Having a potentially life-threatening disease like cancer often makes people to examine their lives and look for meaning.

Today in many cultures and societies, cancer remains a taboo and the people suffering with cancer are subjected to stigma and discrimination which prevents them from seeking care (Valerie

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Table of Contents

1

2

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A Review on Various Formulation Methods in preparing Colon targeted mini-tablets for Chronotherapy

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ABSTRACT

Rheumatoid arthritis disease, according to its circadian rhythms shows early morning peak symptoms. Sometimes, single unit (ex. larger tablets) and multiple units (ex. granules, pellets) colon targeted drug delivery systems are not always an efficient treatment option. Because single unit larger tablets may possess the disadvantages of unintentional disintegration of the formulation due to GI variation or manufacturing deficiency leading to complete dose dumping. Even the multiple unit drug delivery systems such as granules and pellets also have many drawbacks because of their irregular weights, shapes and sizes. Thus, a tight, reproducible *in-vitro* and *in-vivo* release profile can't be achieved. In an attempt to overcome the problems presented by these delivery systems, advanced system such as multiple unit mini-tablets have developed. This is an approach towards achieving critical factors such as better patient compliance and convenience. In the present review, a concerted try has made to summarize the details of different formulation methods used in preparing mini-tablets of lornoxicam and naproxen drugs for colon targeted delivery in chronotherapy. The techniques formulated and evaluated as core-mini-tablets filled pulsincap drug delivery system (using time dependent polymers), matrix-mini-tablets filled capsule drug delivery system (using microsomal enzyme dependent and pH dependent polymers) and coated-mini-tablets filled capsule drug delivery system (using pH dependent polymers). All these methods were successful in targeting Anti-inflammatory drugs at colonic junction. Hence, the mentioned formulation methods can be successfully used in the chronotherapeutic treatment of Rheumatoid arthritis.

INTRODUCTION

reduced when a drug is not given when actually it is not required

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