

List of Paper Publications by faculty for AY 2023-24

S. No.	Title	Authors	Journal	Year/Volume/ Issue/Page	UGC Care list/Scopus /DOAJ
1.	Design and characterization of Glimepiride hydrotopic solid dispersion to enhance the solubility and dissolution	Dr. M. Ravi Kumar, et al	Journal of applied Pharmaceutical Research	2024, Vol 12 Issue 2 Pg 68-78	Scopus
2.	A comprehensive review on Pharmacognostic & Phytochemical evaluation of Bryophyllum Pinnatum leaves	Dr. M. Ravi Kumar, P. Naga Chandrika	Journal of technology	2024, Vol 12 Issue 4	Scopus
3.	Exploration of In-Vitro Antidiabetic activity of ZnO NPs and Ag NPs synthesized using methanolic extracts of Alpinia mutica and Tradescantia spathaeca leaves	Dr. M. Ravi Kumar, P. Shankaraiah	International Journal of Pharmaceutical Quality Assurance	2023; 14(3): Pg 464-469	Scopus
4.	A Review on herbal nano drug delivery systems: A new skyline	Dr. M. Ravi Kumar, P. Shankaraiah	AIP Conference Proceedings	2023	-
5.	Importance of a Yoga course to manage Hypoxia in individuals	Dr. M. Ravi Kumar, et al	International Journal of Zoological Investigations	2023; Vol 9, No 2, Pg 1239-1245	Web of Sciences
6.	Establishment and Validation of High-performance liquid chromatography Technique for Quantifying Dalbavancin in Injectable Formulations	Dr. M. Srinivas, et al	Asian Journal of Pharmaceutical Research and Health care	2023; Vol 15 Issue 4	Web of Sciences
7.	Development and validation of an HPLC method for the determination of Lobeglutazone in Bulk and in Tablet formulation	Dr. M. Srinivas, et al	Int.J.Pharm. Investigation	2023; Vol 14 Issue 1 Pg 204-211	-
8.	Antimycobacterial, Molecular Docking and ADME Studies of Spiro Naphthyridine Pyrimidine and N-(Quinolin-8-yl) acetamide Derivatives	Dr. R.Siva Kumar	Chemistry Select	2023,8 Pg 1-14	Scopus
9.	A review on role of biomass in production of global renewable bioenergy	Dr. P.Neeraja, et al	EMERG	Vol IX Issue 3/2023 Pg 103-122	Scopus

10.	The effect of obesity on Severity of Asthma: An Observational Prospective Study from Pakistan	Dr. Abdul Nazar Ali	Journal of Pharmacy and Bioallied Sciences	2024; Vol 16 Issue 1 Pg 38-43	Scopus
11.	A new method was established for simultaneous estimation of elbasir and grazoprevir by RP-HPLC method	Ch. Sumalatha	Indo American Journal of Pharmaceutical Sciences (IAJPS)	2023; Vol 10(09) Pg 287-295	-
12.	Molecular Docking analysis of Human-Cyclooxygenase 1CX2 by 97 flavonoid derivatives	Ch. Sumalatha	European chemical bulletin	2023; Issue 8 3628-44	-
13.	Evaluation of anti-inflammatory and analgesic activity of aqueous and alcoholic extracts of leaves of Epipremnum aureum. Linn in rats	B. Sandhya, et al	Journal of Emerging technologies and innovative research (JETIR)	2023; Vol 10, Issue 10 Pg 607	-
14.	Observational study of incidence and clinical patterns of Mesenteric lymphadenopathy among children in RVM hospital	Dr.Md. Abubakar	Clinical Practice	(2023) 20 (2), Pg 1-13	Scopus
15.	Comparative study of combination therapy of Telmisartan + Amlodipine Vs Telmisartan + Clinidipine in hypertensive patients	Dr.Md. Abubakar	Journal of Cardiovascular Disease Research	2023; Vol 14, Issue 9, Pg 14	-
16.	Assessment of the role of clinical pharmacist in implementation of antimicrobial stewardship in a tertiary care hospital: An observational Study	Dr.Md. Mohasin Fasha	Clinical Practice	(2023) 20(2), Pg: 1-12	Scopus
17.	Prospective cohort study on the effectiveness of structured patient education program given to smokers in specialized centers (deaddiction centers)	Dr.S. Kiranmai, Dr.Md. Mohasin Fasha	Clinical Practice	(2023) 20(4), Pg: 104-113	Scopus
18.	Observational Study of ADR monitoring, safety and efficacy of clopidogrel with atorvastatin combination in cardiovascular diseases	Dr.G. Laxmi Frasanna	Clinical Practice	2023; Vol 20(3) Pg 40-47	Scopus
19.	Observational study on safety and efficacy of rivaroxaban in Covid-19 and post Covid-19 patients	Dr.G. Laxmi Frasanna	Clinical Practice	2023; Vol 20(1) Pg 1-11	Scopus

20.	Design and Characterization of Hollow Porous Floating Microspheres of Favipiravir	P. Naga Chandrika	International Journal of Drug Delivery Technology	2024; Vol 14 Issue 1 Pg 236-245	Scopus
21.	Neuroprotective and Antioxidant Potential of Methanolic and Aqueous Peel Extract of Citrus Sinesis on B-Amyloid induced Alzheimer's in mice	G. Sandya Rani	International journal of Science and research	2024, Vol 13, Issue 3	-



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Research Review Club

Assigning of reviewers

AY: 2023-24

Title: Design and characterization of Glimepiride hydrotropic solid dispersion to enhance the solubility and dissolution.

Author Name: Dr.M. Ravi Kumar

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Name of reviewer (1):Dr. P.Neeraja



Name of reviewer (2):Dr. M. Srinivas



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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: DESIGN AND CHARACTERIZATION OF GLIMEPIRIDE HYDROTROPIC SOLID DISPERSION TO ENHANCE THE SOLUBILITY AND DISSOLUTION.

AUTHOR: Dr. M. Ravi kumar

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Glimepiride lowers blood sugar levels in the body, and treats type 2 diabetes mellitus. But the main problem with the drug is its low aqueous solubility. The primary purpose of this study is to increase its solubility in an aqueous medium by using amphiphilic hydrotropic agents instead of harmful, volatile organic solvents. A solubility study of Glimepiride was carried out using various hydrotropic agents at 10%, 20%, 30%, and 40%. In mixed hydrography, 30% of the hydrotropic agents were chosen for making blends due to their highest solubility. The blend's solubility was raised more than 50 times at fixed concentrations of urea (20%) and sodium acetate (10%) in a mixed hydrotropic solution. The solubility of Glimepiride in distilled water is 0.0038 mg/ml; in 30% urea, 49.512 ug/ml; and in 30% sodium acetate, 40.43 ug/ml. The optimized blend prepared hydrotropic solid dispersions by physical mixing and solvent evaporation. It was evaluated for drug content, FTIR, SEM, X-ray diffraction, and in vitro drug release studies. Finally, the drug release profile of the prepared tablet is compared with an already available consumer product.

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Title: A comprehensive review on Pharmacognostic & Phytochemical evaluation of *Bryophyllum Pinnatum* leaves

Author Name: Dr.M. Ravi Kumar

I hereby assign proposed research or review article to the reviewers



Name of reviewer (1): Dr. Bharat Bhushan Mohapatra

Name of reviewer (2): Dr. M. Srinivas



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TITLE: A comprehensive review on Pharmacognostic & Phytochemical evaluation of *Bryophyllum Pinnatum* leaves.

AUTHOR: Dr. M. Ravikumar

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Empagliflozin is an inhibitor of sodium-glucose co-transporter-2 (SGLT2). It is used in the management and treatment of diabetes mellitus (type 2). Till now the research done suggests that nano delivery systems may be the choice of drug delivery which can reduce dosing frequency and improve patient compliance. Hence, it was proposed to prepare nanoparticles of Empagliflozin. In this work, it was attempted to prepare nanoparticles of Empagliflozin using Eudragit and HPMC as polymers by solvent evaporation technique. Among the formulations, F1 and F4 have exhibited the best results. Drug loading capacity was between 13.20 to 19.96 percent. Encapsulation efficiency (%) of drug-polymer containing nanoparticles in various ratios was in-between 68.38 to 95.82. It is increased as the polymer quantity increased. For 10 hours, *in vitro* dissolution testing showed the drug release percentage for all formulations in the range between 89.75 and 97.93 per cent. *In vitro* studies have concluded that nanoparticles of Eudragit are superior for Empagliflozin delivery than HPMC based nanoparticles. The polymeric nano particles were evaluated for anti-diabetic Activity. All the formulations showed optimum results of which formulation containing higher concentration of Eudragit shown the better results in all the evaluated parameters. The polymeric nano particles were evaluated by *in-vitro* and *in-vivo* anti-diabetic methods and shown potential anti-diabetic activity. Thus, F1 can be concluded as the ideal batch of formulation.

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Title: Exploration of In-Vitro Antidiabetic activity of ZnO NPs and Ag NPs synthesized using methanolic extracts of *Alpinia mutica* and *Tradescantia spathaeca* leaves

Author Name: Dr. M. Ravi kumar

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Name of reviewer (2): Dr. Bharat Bhushan Mohapatra

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TITLE: EXPLORATION OF IN-VITRO ANTIDIABETIC ACTIVITY OF ZNO NPS AND AG NPS SYNTHESIZED USING METHANOLIC EXTRACTS OF *ALPINIA MUTICA* AND *TRADESCANTIA SPATHAECA* LEAVES

AUTHOR: Dr. M. Ravi kumar

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Diabetes might be cured with the use of medicinal herbs and environmentally friendly production of metallic nanoparticles (Ag NPs) and ZnO NPs. The methanolic leaf extracts of *Alpiniamutica* and *Tradescantiaspathaeca* were used to synthesize silver nanoparticles (Ag NPs) and zinc oxide nanoparticles (ZnO NPs), respectively, for in-vitro evaluation. Methanolic leaf extracts of *A. mutica* and *T. spathaeca* were used to create AgNPs and ZnO NPs under ambient conditions using ultrasound-assisted extraction (UAE). Their ability to block alpha- and beta-amylase confirmed the in-vitro antidiabetic efficacy of methanolic leaf extract of plant (MLEP), AgNPs, and ZnO NPs. In this study, α - amylase activity of ZnO and nanoparticles of silver produced from natural sources will be evaluated in an effort to lessen the toxicity and negative effects of the inhibitor used to treat diabetes. Antidiabetic action was especially impressive in the ZnO and silver nanoparticles produced using methanolic extracts of *A. mutica* and *T. spathaeca*. Because of their promising in-vitro antidiabetic action with alpha-amylase activity, MLEP of *A. mutica* and *T. spathaeca*, AgNPs, and ZnO NPs show promise for future medical uses.

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Title: A Review on herbal nano drug delivery systems: A new skyline

Author Name: Dr. M. Ravi kumar

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: A REVIEW ON HERBAL NANO DRUG DELIVERY SYSTEMS: A NEW SKYLINE

AUTHOR NAME: Dr. M. Ravi kumar

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Throughout history, herbal medicinal products have been commonly used in the world. Many medicinal plants have been able to clarify composition and biological activities by advancing the phytochemical and phytopharmaceutical sciences. The effectiveness of many plant species in medicines relies on the supply of active ingredients. Most natural components, such as flavonoids, tannins, and terpenoids, are soluble in water, but they can hardly pass through the cell membrane; therefore, their absorption is low. Because of these obstacles, some extracts are not used clinically. It is widely envisaged that the combination of sophisticated medicines with herbal products could be ready to enhance the action, reduce the specific dose and facet effects of plant extracts, and increase activity due to nanostructured systems. Nanosystems will deliver an active component required for all treatment volumes at a replacement concentration. Typical treatments do not meet these necessities. This is to investigate structures and herbal drugs dependent on nanotechnology.

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Research Review Club

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Author Name: Dr. M. Ravi kumar

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Research Review Club

Assigning of reviewers

AY:2023-24

Title: Importance of a Yoga course to manage Hypoxia in individuals

Author Name: Dr. M. Ravi kumar

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**TITLE: IMPORTANCE OF A YOGA COURSE TO MANAGE HYPOXIA IN
INDIVIDUALS**

AUTHOR NAME: Dr. M. Ravi kumar

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Yoga is an art, a science, and a philosophy that was developed in India over 5000 years ago but now draws on a variety of spiritual precepts, practices, and ideas. An evaluation of the current yoga course revealed that, out of the more than 60 yogic activities, 16 and 17 were found to increase oxygen saturation and improve lung capacity, while 19 were determined to be helpful in both areas. The current study is a useful module for treating people with respiratory issues and hypoxia. However, more study is required to determine the viability and effectiveness of the module.

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Author Name: Dr. M. Srinivas

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TITLE: ESTABLISHMENT AND VALIDATION OF HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY TECHNIQUE FOR QUANTIFYING DALBAVANCIN IN INJECTABLE FORMULATIONS

AUTHOR NAME: Dr M. Srinivas

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

A simple and sensitive analytical method was developed to estimate dalbavancin, anti-biotic drug in injectable formulations. Materials and Methods Separation of analyte was attained on a Phenomenex Luna C 18 column (250 mm × 4.6 mm × 5 μm particle size) using potassium dihydrogen orthophosphate pH 3.0 adjusted with orthophosphoric acid: acetonitrile: methanol (70:20:10 % v/v/v) as mobile phase pumped at 1.0 mL/min. A UV detector was used for effluent detection at a wavelength of 288 nm. Results The retention time for Dalbavancin was determined to be 3.96 minutes. The drug exhibited linearity within the concentration range of 20–100 μg/mL. The accuracy of the method was considered satisfactory and the mean recovery percentage is found to be in the acceptable range of 98.74-101.02 %. Conclusion The RP-HPLC method was successfully developed, validated as per ICH guidelines. The proposed method was simple, precise, sensitive, rapid, robust for the estimation of dalbavancin in injectable formulations.

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AuthorName: Dr.M.Srinivas

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AUTHOR NAME: Dr. M.Srinivas

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Objectives: A straightforward, accurate, and precise reverse-phase high-performance liquid chromatography method was developed to determine the quantity of Lobeglitazone in both bulk and pharmaceutical dosage forms. **Materials and Methods:** The chromatographic separation was achieved on a Phenomenex Luna column with dimensions of 250 cm×4.6 mm×5 µm, and the mobile phase was a combination of potassium dihydrogen orthophosphate and acetonitrile in a 70:30 V/V ratio with a pH of 4.0, adjusted using orthophosphoric acid. The flow rate was set at 1.0 mL/min, and detection of the effluents occurred at 250 nm. **Results:** The retention time for Lobeglitazone was determined to be 2.157 min. The drug exhibited linearity within the concentration range of 10-60 µg/mL, the correlation coefficient was established to be 0.9996. The LOD, LOQ were found to be 0.8 µg/mL and 2.5 µg/mL. The accuracy of the method was considered satisfactory and the mean recovery percentage is found to be in the acceptable range of 99.78-101.31%. **Conclusion:** The HPLC method was successfully developed, validated as per ICH guidelines. The proposed method was simple, precise, sensitive, rapid, robust for the estimation of Lobeglitazone in both bulk and tablet dosage forms.

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REPORT

AY:2023-24

Title: Development and validation of an HPLC method for the determination of Lobeglutazone in Bulk and in Tablet formulation

Author Name: Dr. M.Srinivas

Name of reviewer (1): Dr. R. Siva kumar:

Name of reviewer (2): Dr. M. Ravi kumar:



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AY:2023-24

Title: Antimycobacterial, Molecular Docking and ADME Studies of Spiro Naphthyridine Pyrimidine and N-(Quinolin-8-yl) acetamide Derivatives

Author Name: Dr.R.Siva Kumar

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: ANTIMYCOBACTERIAL, MOLECULAR DOCKING AND ADME STUDIES OF SPIRO NAPHTHYRIDINE PYRIMIDINE AND N-(QUINOLIN-8-YL) ACETAMIDE DERIVATIVES

AUTHOR NAME: Dr.R.Siva Kumar

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Two series of compounds viz., spiro naphthyridine pyrimidine derivatives and N-(quinolin-8-yl)acetamide derivatives which possess the quinoline core moiety were designed and synthesized. The spectral analysis viz., FT-IR, ¹H-NMR, ¹³C-NMR and mass was carried out to establish the structures for the synthesized compounds. *In vitro* anti-tubercular activity was done against *Mycobacterium tuberculosis* H37Rv by following "microplate alamar blue assay (MABA)". The synthesized compounds showed good anti-tuberculosis (TB) activity with the least minimum inhibitory concentration (MIC) value of 6.25 µg/mL. Computational molecular docking studies were performed out with *Mycobacterium tuberculosis* enoyl reductase (INHA) (PDB code: 4TZK) using AutoDock to predict the key binding interactions responsible for the activity and the Swiss ADME (absorption, distribution, metabolism, and excretion) tool computed the *in silico* drug likeliness properties. The synthesized title compounds create a way for the optimization and development of potential drugs against tuberculosis.

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Research Review Club

REPORT AY:2023-24

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Research Review Club

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AY:2023-24

Title: A review on role of biomass in production of global renewable bioenergy

Author Name: Dr.P.Neeraja

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Name of reviewer (1):Dr.N.Anjaneyulu

Name of reviewer (2): Dr. M. Ravi kumar

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: A REVIEW ON ROLE OF BIOMASS IN PRODUCTION OF GLOBAL RENEWABLE BIOENERGY

AUTHOR NAME: Dr.P.Neeraja

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Global energy demand is growing rapidly. Biomass for energy can play a pivotal role. Energy from biomass can decrease greenhouse gas emissions. Biomass is a solid, non-hazardous cellulosic material made from plant material farmed for fuel, solid wood and agricultural waste. This review outlines different types of biomass used for bioenergy production. It includes the classification, roles and recent studies of biofuels. The role of bioenergy in agricultural sector, as wastewater is an abundant supply of microorganism nutrients; its role in producing bioenergy is discussed. The efficiency of water for development, global scenario of biofuels is discussed in this review.

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Research Review Club


Assigning of reviewers


AY:2023-24

Title: The effect of obesity on Severity of Asthma: An Observational Prospective Study from Pakistan

Author Name: Dr. Abdul Nazar Ali

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: THE EFFECT OF OBESITY ON SEVERITY OF ASTHMA: AN OBSERVATIONAL PROSPECTIVE STUDY FROM PAKISTAN

AUTHOR NAME: Dr. Abdul Nazar Ali

DESIGNATION: Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

The current research study aimed to access the relationship between obesity and asthma exacerbations and severity among adult patients at the outpatient section of a federal hospital (PIMS) in Islamabad, Pakistan. A cross-sectional research study was carried out on 207 asthma adult patients belonging to different areas and ethnic groups from the country. The study setting was the PIMS hospital, which attracts patients from all over the country due to its facilities and cost-effective treatments. The body mass index (BMI) of asthma patients was calculated using the heights and weights of the study subjects. However, the pulmonary functions were calculated using a computerized spirometer i.e Spirolab III S/N 303681 in line with Winspiro PRO 7.1.version software. It presents the patient's forced vital capacity that expires in the first second of expiration to full (FEV1) in comparison to forced vital capacity (FVC) ratio, that is, Tiffeneau-Pinelli index was also recorded to determine the asthma severity.

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Author Name: Dr. Abdul Nazar Ali

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Research Review Club

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AY:2023-24

Title: A new method was established for simultaneous estimation of elbasir and grazoprevir by RP-HPLC method

Author Name: Ch.Suma Latha

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: A NEW METHOD WAS ESTABLISHED FOR SIMULTANEOUS ESTIMATION OF ELBASIR AND GRAZOPRE VIR BY RP-HPLC METHOD

AUTHOR NAME: Ch.Suma Latha

DESIGNATION: Associate Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Objective: A simple, Accurate, precise method was developed for the simultaneous estimation of the Elbasvir and Grazoprevir in pharmaceutical dosage form. **Methods:** Chromatogram was run through symmetry C18, 250 x 4.6 mm, 5 μ m. Mobile phase containing 0.1% Ortho Phosphoric acid: Acetonitrile, (55:45, v/v) was pumped through column at a flow rate of 1 ml/min. Temperature was maintained at Ambient. Optimized wavelength for Elbasvir and Grazoprevir was 260 nm.

Results: Retention time of Elbasvir and Grazoprevir were found to be 3.848 min and 2.313 min. The % purity of Elbasvir and Grazoprevir was found to be 100.4 % and 100.2 % respectively. The system suitability parameters for Elbasvir and Grazoprevir such as theoretical plates and tailing factor were found to be 3568.30 and 4836.12. The linearity study for Elbasvir and Grazoprevir was found in concentration range of 12.5 μ g-75 μ g and 25 μ g-150 μ g and correlation coefficient (r^2) was found to be 0.999 and 0.999, % mean recovery was found to be 100.19 % and 100.84 %, %RSD for repeatability was 0.75 and 0.36 %. The precision study was precise, robust and repeatable. LOD value was 0.082 and 0.357, and LOQ value was 1.05 and 0.23 respectively **Conclusion:** The results of study showed that the proposed RP-HPLC method is a simple, accurate, precise, rugged, robust, fast and reproducible, which may be useful for the routine estimation of Elbasvir and Grazoprevir in pharmaceutical dosage form.

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REPORT

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Title: A new method was established for simultaneous estimation of elbasir and grazoprevir by RP-HPLC method

Author Name: Ch.Suma Latha

Name of reviewer (1): Dr M. Srinivas:



Name of reviewer (2): Dr.R.Sivakumar:




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Research Review Club

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AY:2023-24

Title: Molecular Docking analysis of Human-Cyclooxygenase 1CX2 by 97 flavonoid derivatives

Author Name: Ch. Sumalatha

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Name of reviewer (2): Dr.M.Ravi kumar

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: MOLECULAR DOCKING ANALYSIS OF HUMAN-CYCLOOXYGENASE 1CX2 BY 97 FLAVONOID DERIVATIVES

AUTHOR NAME: Ch. Sumalatha

DESIGNATION: Associate Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

COX (Cyclooxygenase) is the protein that infuses the degradation of PG(prostaglandins) from its substrate, AA (arachidonic acid). The reactions involve 2 steps that area unit 1 st step oxidation reaction of AA to hydroperoxy endoperoxide PGG₂, go after by 2nd steps future reduction to hydroxyl endoperoxide PGH₂. During this work, we tend to study the interaction of ninety-seven flavone derivatives against COX enzymes for anti-inflammatory activity discovery using molecular docking simulation. Docking simulation for every compound was continual molegro virtual docker (MVD) 2013.6.0 for windows was used to predict the degree of each COX binding pockets. Thus, these observations are inconsistent 14 compounds were designated per their best marking values and were designed their hydrogen bonds,electrostatic interactions, steric interactions. However, selective CO-II inhibitors, respectively, N-acetyl-D-glucosamine, protoporphyrin-IX containing Fe, 1-Phenyl-sulfonamide-3-trifluoromethyl-5-parabromophenyl-pyrazole. The remainder of the LIGs is categorized as non-selective inhibitors.

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Research Review Club

REPORT

AY:2023-24

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Author Name: Ch. Sumalatha

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Name of reviewer (2): Dr.M.Ravi kumar:



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Assigning of reviewers

AY:2023-24

Title: Evaluation of anti-inflammatory and analgesic activity of aqueous and alcoholic extracts of leaves of *Epipremnum aureum*. Linn in rats

Author Name: B. Sandhya

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TITLE: EVALUATION OF ANTI-INFLAMMATORY AND ANALGESIC ACTIVITY OF AQUEOUS AND ALCOHOLIC EXTRACTS OF LEAVES OF EPIPREMNUM AUREUM. LINN IN RATS

AUTHOR NAME: B.Sandhya

DESIGNATION: Assistant Professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Epipremnum aureum (Family Araceae) commonly known as Money plant is a vigorously growing in India. It is a common indoor plant generally used for ornamental purposes having indoor air pollution removing capacity. The preliminary phytochemical studies of the aqueous and alcoholic extracts of the leaves showed the presence of various phytochemical constituents such as alkaloids, tannins, flavonoids, triterpenoids, and saponins. Aims and Objectives: The aim of the present study was carried out with the objective of phytochemical screening and to evaluate the anti-inflammatory and analgesic of aqueous and alcoholic extract of *E.aureum* in albino rats. Materials and Methods: Albino Wistar rats (100–150 g body weight) were used in this study. Aqueous and alcoholic extract of *Epipremnum aureum* was used to evaluate acute anti-inflammatory and analgesic activity by plethysmometer and hot plate method by oral administration at doses of 200 mg/kg body weight in healthy albino rats. Results: In acute studies, the aqueous and alcoholic extract showed anti-inflammatory activity by significant reduction in the paw edema volume, and significantly increased the latency of paw licking in hot plate method in a dose-dependent manner when compared with the control and standard drug. Statistical analysis was carried out by one-way ANOVA test. Conclusion: Thus, the positive results suggest that *Epipremnum aureum* extracts should be further studied to determine the bioactive chemical compounds as well as to understand the possible mechanism of action and evaluate their toxicity looking towards pharmacological actions.

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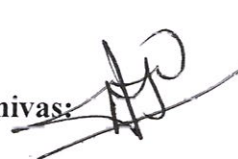
Research Review Club


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Author Name: B.Sandhya

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Research Review Club

Assigning of reviewers

AY:2023-24

Title: Observational study of incidence and clinical patterns of Mesenteric lymphadenopathy among children in RVM hospital

Author Name: Dr.Md. Abubakar

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Name of reviewer (2):Dr. M. Ravi kumar

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

**TITLE: OBSERVATIONAL STUDY OF INCIDENCE AND CLINICAL PATTERNS OF
MESENTERIC LYMPHADENOPATHY AMONG CHILDREN IN RVM HOSPITAL**

AUTHOR NAME: Dr.Md. Abubakar

DESIGNATION: Assistant professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Background: In this study, the objective was to estimate the incidence and observe the presenting complaints, and clinical patterns of mesenteric lymphadenopathy with and without abdominal pain in children. Methodology: An observational study has been conducted on outpatients and inpatients of pediatrics in RVM Hospital (Laxmakkapally, Mulugu, Siddipet, Telangana). Total patients of 101 with mesenteric lymphadenopathy were recruited in the study and all of them were treated with the antibiotic drug metronidazole. The ML was diagnosed using the USG abdomen and Wong Bakers' pain scale. Results: From the results obtained, we hereby conclude that the incidence rate of abdominal pain in ML was 100%. the incidence rate of ML in patients who were admitted with abdominal pain was 17%. the ML was diagnosed predominantly in females.

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Author Name: Dr.Md. Abubakar

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Research Review Club

Assigning of reviewers

AY:2023-24

Title: Comparative study of combination therapy of Telmisartan + Amlodipine Vs Telmisartan +
Clinidipine in hypertensive patients

Author Name: Dr.Md. Abubakar

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: COMPARATIVE STUDY OF COMBINATION THERAPY OF TELMISARTAN + AMLODIPINE VS TELMISARTAN + CLINIDIPINE IN HYPERTENSIVE PATIENTS

AUTHOR NAME: Dr.Md. Abubakar

DESIGNATION: Associate professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

BACKGROUND : Hypertension also known as high blood pressure, is a hidden global menace, and it is a major risk of other heart diseases. A crucial need for any combination is evidence that it reduces BP significantly more than monotherapy with its separate components. **METHOD:** A comparative observational study of combination therapy (Telmisartan + Amlodipine vs Telmisartan + Cilnidipine) in Hypertensive patients was conducted over 6 months in tertiary care hospital, a total of 108 cases were collected and patient's medical records were assessed. **RESULTS:** The results showed a considerable reduction in blood pressure among both the selected groups. There is a considerable reduction of blood pressure in the group A patients (of about 30mmHg systolic pressure decrease and 20mmHg diastolic pressure decrease) with an exception in some patients, with the incidences of side effects of unusual heart rate, and general puffiness. Group B showed significant results in decreasing the BP levels and also maintaining stability after consecutive months. There is progressive reduction (of about 40mmHg systolic pressure and 20mmHg diastolic pressure decrease) without any substantial side effects

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Research Review Club

REPORT

AY:2023-24

Title: Comparative study of combination therapy of Telmisartan + Amlodipine Vs Telmisartan +
Clinidipine in hypertensive patients

Author Name: Dr.Md. Abubakar

Name of reviewer (1): Dr. Abdul Nazar Ali:

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AY:2023-24

Title: Assessment of the role of clinical pharmacist in implementation of antimicrobial stewardship in a tertiary care hospital: An observational Study

Author Name: Dr. Md. Mohasin Pasha

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: ASSESSMENT OF THE ROLE OF CLINICAL PHARMACIST IN IMPLEMENTATION OF ANTIMICROBIAL STEWARDSHIP IN A TERTIARY CARE HOSPITAL: AN OBSERVATIONAL STUDY

AUTHOR NAME: Dr. Md. Mohasin Pasha

DESIGNATION: Assistant professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Background A clinical pharmacist plays a key role in the implementation of antimicrobial stewardship by rationalizing antimicrobial use, decreasing the risk of antimicrobial resistance, and improving patient's health-related quality of life. **Objective** To emphasize the role of clinical pharmacist in AMSP to develop and manage the optimal use of antimicrobial agents and to promote rational antimicrobial use. To rationalize antimicrobial use, to promote evidence-based medicine, to decrease the occurrence of antimicrobial resistance **Methods** An observational study was conducted over 6 months in tertiary care hospitals, a total of 152 cases were collected from the patient and patient's medical record and was assessed. **Results:** Among 152 cases, 54 were rational and 98 were irrational irrespective of departments, 48.97% were wrong drug error, 27.55% were inappropriate duration of therapy, 5.1% were drug duplication, 19.38% were multiple antimicrobials for unnecessary use, 3.06% were overdose, 3.06% were subtherapeutic dose and 10.2% were drug without indication. Gram stain 13.26%, culture report 46.93%. **Conclusion** In this observational study, we are concluding that the role of the clinical pharmacist is vital in AMSP. With the implementation of AMSP, there is an opportunity for improvements in the appropriate use of antimicrobials without negatively affecting clinical outcomes.

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AY:2023-24

Title: Prospective cohort study on the effectiveness of structured patient education program given to smokers in specialized centers (deaddiction centers)

Author Name: S. Kiranmai

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: PROSPECTIVE COHORT STUDY ON THE EFFECTIVENESS OF STRUCTURED PATIENT EDUCATION PROGRAM GIVEN TO SMOKERS IN SPECIALIZED CENTERS (DEADDICTION CENTERS)

AUTHOR NAME: S. Kiranmai

DESIGNATION: Assistant professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Globally, smoking tobacco is a crucial cause of more than 80 lakh deaths per year and a key exposure factor for the progression of multiple diseases, including lung, liver, oral, and throat cancer, pulmonary diseases, heart diseases, and stroke. Cigarette smoking increases the disease burden and probability of death. Pakistan, India and Bangladesh are the most endangered countries, with a high proportion of consumers of nicotine and cigarettes. To execute a prospective cohort interventional study to perceive the outcomes of SPEP to help quit smoking in specialized centers. The study was fashioned to be prospective, interventional, and cohort in comparing the dependence on nicotine usage between three groups. They are Patients receiving only NRT, Patients receiving NRT along with SPE and Patients receiving only SPEP. The study will be conducted in Rehabilitation centers (Asha Hospital- Banjara Hills and rehabilitation center- Jubilee hills, Serenity foundation- Kapra). Study was proposed to be conducted for a 3-months. Therefore, we conclude that the efficiency of the SPEP given to smokers is significantly influenced by their willingness to give up smoking. This program has shown positive outcomes as it accompanies the patient through all the phases of giving up smoking and tries to facilitate the process of abstinence easy and fool proof as possible. Smoking cessation is a challenging procedure but a rewarding one, and with professional help (SPEP) could be made possible.

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AY:2023-24

Title: Observational Study of ADR monitoring, safety and efficacy of clopidogrel with atorvastatin combination in cardiovascular diseases

Author Name: G.Laxmi Prasanna

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: OBSERVATIONAL STUDY OF ADR MONITORING, SAFETY AND EFFICACY OF CLOPIDOGREL WITH ATORVASTATIN COMBINATION IN CARDIOVASCULAR DISEASES

AUTHOR NAME: G.Laxmi Prasanna

DESIGNATION: Assistant professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Background: These days commonly used drug in cardiovascular problems is clopidogrel & atorvastatin, so the primary goal is to figure out the adequacy and any ADRs related to the treatment. **Objective:** To evaluate the safety and efficacy of drugs, and also identifies the ADRs of drugs & their associated problems in cardiovascular disorder patients. **Methods:** An observational study was conducted in the inpatient & outpatient unit of the cardiology department of RVM institutional, laxmakkapally for 6 months. The study shows 105 patients, including males and females diagnosed with cardiovascular disorders. **Results:**The review contains 105 subjects. Out of them, 91 showed Doubtful ADRs (86.7%), 11 showed Possible ADRS (10.5%), and just 3 showed Probable ADRS (2.9%) None of them showed any Definite ADRs, and furthermore founded on the HS Troponin I mean contrast esteem (988.44) the medicine is protected and compelling in the therapy of CVS Disorder. **Conclusion** According to the Naranjo ADR probability scale and HS Troponin values the medication is demonstrated to be protected and more compelling in the treatment of CVS issues.

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Title: Observational Study of ADR monitoring, safety and efficacy of clopidogrel with atorvastatin combination in cardiovascular diseases

Author Name: G.Laxmi Prasanna

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AY:2023-24

Title: Observational study on safety and efficacy of rivaroxaban in covid-19 and post covid-19 patients

Author Name: G. Laxmi Prasanna

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**TITLE: OBSERVATIONAL STUDY ON SAFETY AND EFFICACY OF RIVAROXABAN
IN COVID-19 AND POST COVID-19 PATIENTS**

AUTHOR NAME: G. Laxmi Prasanna

DESIGNATION: Assistant professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

Background: Rivaroxaban used to treat the coagulation is prescribed for covid 19 and post covid 19 (viral pneumonia and LRTI). To study the role of rivaroxaban in subjects with covid 19 and post covid 19 and assess the role of Rivaroxaban in covid 19 and post covid 19 subjects (LRTI or Viral pneumonia). To check the D DIMER value pre and post-giving Rivaroxaban. Methodology:A total of hundred subjects were taken between the age of eighteen to eighty years having increased d dimer in covid-19 and post covid-19 subjects. The subjects were prescribed rivaroxaban with the dose of 10 mg orally administered once a day. The d-dimer is checked prior to the drug administration and after taking rivaroxaban. Results:A rapid reduction in d-dimer values occurred from the administering the drug. It is observed statistically that the rivaroxaban prescribed is safe and effective in managing coagulation of covid19 and post covid-19 subjects. Conclusion:This study confirms that the Rivaroxaban is desirable for subjects having coagulation during covid19 or post covid-19.

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Author Name: G. Laxmi Prasanna

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Title: Design and Characterization of Hallow Porous Floating Microspheres of Favipiravir

Author Name: P.Naga chandrika

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Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana State- 501301

TITLE: DESIGN AND CHARACTERIZATION OF HALLOW POROUS FLOATING MICROSPHERES OF FAVIPRAVIR

AUTHOR NAME: P.Naga chandrika

DESIGNATION: Assistant professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

The present investigation deals with the design and characterization of favipiravir floating microspheres for gastro retentive drug delivery system by employing 3^2 factorial design and also to investigate the main effects of different independent variables on microspheres that float. The emulsion solvent diffusion method was used to manufacture floating microspheres with Eudragit S 100 as the polymer. These microspheres will extend the release of the medicine, reducing the frequency of administration and the harmful effects caused by fluctuations in plasma concentration with conventional dosage forms. The main effect of independent variables like polymer Eudragit S 100 concentrations (50, 100, 150 mg) and stirring time (1, 2 and 3 hours) on the performance of microspheres. Formulated microspheres were characterized for responses including drug release, particle size, and entrapment efficiency and floating time. Based on the results of the responses, the optimized composition was arrived using the response surface method graphical and numerical optimization method using design of experiments (DoE) software. Then, the optimized formulation (OFES) was prepared and evaluated for the four responses compared with predicted values to find the validity of the selected model. The optimized formulation was further analyzed for drug-excipient compatibility by fourier-transform infrared (FTIR), differential scanning calorimetry (DSC), and also analyzed by X-ray diffraction (XRD), scanning electron microscope (SEM) analysis. Further zeta potential and micrometric properties were also observed. The results for the formulation FES 1 to 9 found were, that particles size ranged from 0.192 to 0.277 μm , entrapment efficiency ranged from 68.65 ± 1.9 to $76.25 \pm 3.2\%$, percentage drug release range was from 89.25 ± 0.24 to $93.68 \pm 0.25\%$, and floating time range was from 12 to 23 hours. As per the design, OFES an optimized formulation fitted with the concentration of Eudragit S 100 of 139.1 mg and stirring time of 1-hour. Regarding the kinetic release, the responses were best fitted with Higuchi model of R^2 value of 0.9795 with kinetic mechanism of non-fickian diffusion with R^2 value of 0.9499, indicating good linearity. The combination of different variables and their effects on responses were investigated well using factorial design, and an optimized formulation was developed for favipiravir

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Title: Design and Characterization of Hallow Porous Floating Microspheres of Favipiravir

Author Name: P.Naga chandrika

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AY:2023-24

Title: Neuroprotective and Antioxidant Potential of Methanolic and Aqueous Peel Extract of Citrus Sinesis on B-Amyloid induced Alzheimer's in mice

Author Name: G.Sandya Rani

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TITLE: NEUROPROTECTIVE AND ANTIOXIDANT POTENTIAL OF METHANOLIC AND AQUEOUS PEEL EXTRACT OF CITRUS SINENSIS ON B-AMYLOID INDUCED ALZHEIMER'S IN MICE

AUTHOR NAME: G.Sandya Rani

DESIGNATION: Assistant professor

COLLEGE: GEETHANJALI COLLEGE OF PHARMACY

Abstract

This study delves into the intricate pathophysiology of alzheimer's disease AD, a leading neurodegenerative disorder characterized by significant neuronal loss and cognitive decline, primarily attributed to oxidative stress. Tracing its roots back to Alois alzheimer's discovery in 1906, the research the β -amyloid hypothesis, positing that the accumulation of amyloid plaques plays a pivotal role in AD pathogenesis. These plaques, resulting from the abnormal cleavage of amyloid precursor protein APP, alongside hyperphosphorylated tau proteins, disrupt neuronal function and communication, leading to neurodegeneration and dementia. The paper further investigates the potential therapeutic effects of citrus sinensis peel extract, employing an experimental model to amyloid -induced neurotoxicity. Through a comprehensive analysis involving behavioral and biochemical assessments, including acetylcholinesterase and glutathione estimation, the study aims to elucidate the neuroprotective properties of the extract against AD pathology. This research contributes to the ongoing exploration of natural compounds in mitigating alzheimer's disease's devastating impact, offering insights into novel treatment avenues grounded in the intricate mechanisms underlying neurodegeneration.

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