

The biannual newsletter of the Dept. of Pharmacy Practice, St. Joseph's College of Pharmacy, Cherthala-688 524, Kerala, India. Website: www.sjpharmacycollege.com



Dr. Sr. Betty Carla
Director and Founder Principal
St. Joseph's College of Pharmacy

The new issue of SJCP reach out is releasing in the Decennial year of the commencement of the PharmD program at St. Joseph's College of Pharmacy, Cherthala. It is a proud moment that many of our students are well-placed in India and Abroad. The efforts of the faculty of the college especially the pharmacy practice department and doctors in the hospital, who have moulded the students, are really praise worthy. I appreciate all the students who have come out with flying colors and congratulate editorial members who are behind the release of the new issue of SJCP reach out.



Dr. Sr. Daisy P.A
Principal
St. Joseph's College of Pharmacy

I happily wish all success and publicity to this news letter published by the department of Pharmacy practice of St. Joseph's College of Pharmacy. Happy to announce that the department is entering into its Decennial year. I congratulate the team for its remarkable contribution in health care field. Proud to say that all our PharmD students who have successfully completed their course have been accommodated in key positions in different organizations in and out of the Nation.



PRACTICE CHANGING CLINICAL UPDATES

NEW GOLD STRATEGY FOR INITIAL COPD PHARMACOLOGIC MANAGEMENT

The Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2023 report identifies key changes for patients with COPD, specifically more aggressive initial bronchodilator therapy: Single-agent long-acting bronchodilator therapy for less severe symptoms and low exacerbation risk (Group A), Dual long-acting bronchodilator therapy for more severe symptoms and low exacerbation risk (Group B), Dual long-acting bronchodilator therapy for high exacerbation risk, regardless of symptoms (Group E, replacing previous Groups C and D categories). It also redefines a COPD exacerbation as an event characterized by dyspnea and/or cough and sputum that worsens over ≤ 14 days with possible tachypnea and/or tachycardia caused by airway infection, pollution, or other insult to the airways. This new definition decouples exacerbations from their treatment, which had confounded earlier approaches.

SEMAGLUTIDE FOR OBESITY IN ADOLESCENTS

Glucagon-like peptide (GLP-1) analogs are important options for treatment of type 2 diabetes and/or obesity in adults. In a 68-week randomized trial in 201 adolescents with obesity, patients assigned to weekly subcutaneous semaglutide, a GLP-1 analog, had substantial weight loss compared with lifestyle intervention alone (17.7 kg greater weight loss compared with placebo; 6 kg/m greater decrease in body mass index [BMI]). Gastrointestinal adverse events were common in both groups but were generally mild and rarely led to treatment discontinuation. While head-to-head trials have not been performed in adolescents, indirect evidence suggests greater weight loss with semaglutide than the alternatives, including liraglutide and metformin. Based on these findings, we now suggest semaglutide over other agents for pharmacotherapy of obesity in selected adolescents.

FIRST-TRIMESTER TREATMENT OF MALARIA WITH ARTEMISININ DERIVATIVES

Artemisinin combination therapy (ACT) has become the preferred treatment for uncomplicated malaria in most patients, but use for treatment of chloroquine-resistant malaria in the first trimester has been avoided because of limited safety data. However, in a 2022 meta-analysis of prospective data from >700 pregnancies with confirmed first trimester exposure to ACT and >1000 pregnancies with confirmed first trimester exposure to non-ACTs, adverse pregnancy outcomes occurred less often among those who received ACT, although the result was not statistically significant (5.7 versus 8.9 percent; adjusted hazard ratio [aHR] 0.71, 95% CI 0.49–1.03). Artemether-lumefantrine accounted for 70 percent of the ACT exposures and was associated with a lower risk of adverse pregnancy outcome compared with oral quinine (4.8 versus 9.2 percent; aHR 0.58, 95% CI 0.36–0.92). Based on these data, we now suggest artemether-lumefantrine for treatment of chloroquine-resistant malaria during the first trimester.

EDITORIAL



Dr. Siby Joseph
Professor & HOD
Department of Pharmacy Practice

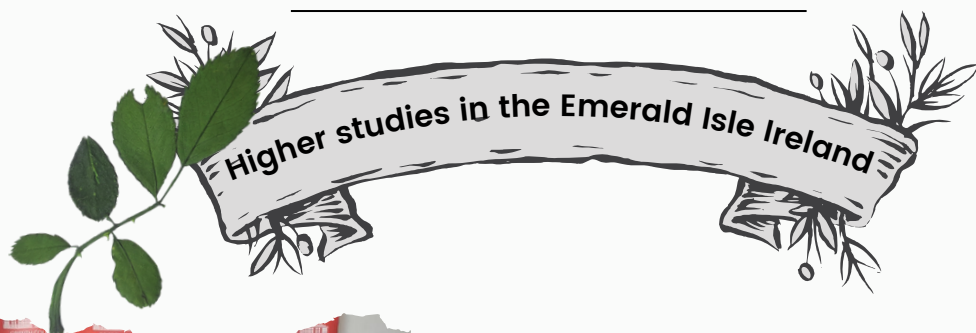
One more issue of "Reach Out Newsletter" with uniqueness of practice changing updates in pharmaceutical care is ready. This issue has showcased case studies published in reputed journals, student achievements including podium and poster presentations, outreach programmes. We are successfully entering into the tenth year of initiation of PharmD programme in our college campus with distinguished track records and strong Alumni. In addition to this we have incorporated articles highlighting higher study experiences from Ireland after PharmD from India. On behalf of Pharmacy practice department I would like to thank each and everyone who directly or indirectly contributed to make this issue of Reach Out a reality.

SGLT2 INHIBITORS IN PATIENTS WITH NONDIABETIC PROTEINURIC CHRONIC KIDNEY DISEASE

Sodium-glucose co-transporter 2 (SGLT2) inhibitors are recommended in patients with diabetic kidney disease; previously, only one large trial examined their effects in nondiabetic chronic kidney disease. In the EMPA-KIDNEY trial, 6609 patients with estimated glomerular filtration rate (eGFR) 20 to 44 mL/min/1.73 m² (regardless of albuminuria) or 45 to 89 mL/min/1.73 m² (if albumin-to-creatinine ratio was at least 200 mg/g) were randomly assigned to empagliflozin 10 mg daily or placebo. At two years, empagliflozin reduced the incidence of end-stage kidney disease, the incidence of a sustained decline in eGFR to <10 mL/min/1.73 m² and the incidence of a sustained decrease in eGFR of 40 percent or more; the risks of all-cause mortality and nonfatal cardiovascular events were similar between groups. The benefit from empagliflozin was larger in patients with albumin-to-creatinine ratio ≥300 mg/g and substantially less in patients with lower albumin excretion. We now recommend SGLT2 inhibitor therapy in patients with nondiabetic chronic kidney disease and albuminuria.

SODIUM PHENYLBUTYRATE-TAURURSODIOL FOR AMYOTROPHIC LATERAL SCLEROSIS

Sodium phenylbutyrate-aurursodiol (PB-TURSO) is a combination of two drugs that reduce neuronal cell death in preclinical models of amyotrophic lateral sclerosis (ALS). In a randomized trial of 137 patients with ALS, patients assigned to PB-TURSO showed a slower median rate of monthly functional decline than those assigned to placebo by 24-week follow-up. In a subsequent analysis of patients who continued open-label treatment, those originally randomized to PB-TURSO had a longer median time to tracheostomy and a longer median time to first hospitalization. Based on these results, the combination product received regulatory approval in the United States and Canada. We now suggest use of PB-TURSO for all patients with ALS, along with riluzole and edaravone.



Masters in Ireland was our dream after completing PharmD as it is a very good country with rich culture and heritage as well as stay-back options after the master's program. The freedom struggles and famine history shows us how deeply they are rooted in their land. It took us months of visa processing and exchange of documents, way before our internship ended. We were lucky that we got a scholarship based on our Merit during the Pharm D Program.

Griffith University offers several courses; three of us chose Pharmaceutical Business and Technology and two chose International Pharmaceutical Business and Management in the Dublin and Cork campus respectively. We had subjects dealing with businesses, operational excellence, clinical research, and research methods. We had online tutorial classes and offline regular classes with teachers who were highly qualified and had immense experience in their respective fields.



We were divided into batches and were given assignments along with these classes. We had assignment weeks where we had time to do these assignments. It was purely based on these assignments they evaluated our performance and promotion given to the next semester. Currently, for our course, we did not have exams this semester.

Studying in Ireland has allowed us to explore and enjoy a new phase of our life. Far from home, we do miss our family and home but there are glimpses of Kerala all over Ireland which make us feel we are still with our people. We had hardships and struggles in our initial days coping with our part-time jobs but eventually, everyone managed it.

Ireland opens up a wide range of opportunities. Ireland has several pharmaceutical companies where there are many positions and roles we can apply to find a job. As of now, it is under a critical skill Visa. We can get the visa within 2 years.

Ireland has given us PharmD graduates a golden chance of applying for the pharmacist post. It is a very secure and respectful position coming under critical skills and thus, we can continue with what we studied.



JOB ROLES THAT YOU CAN LOOK INTO, IF YOU'RE NOT A HOSPITAL PERSON



Dr. Chitson Jolly O, Pharm.D
Clinical Trial Coordinator, PPD

Being a life science course dealing with lots of medicines and treatment guidelines, PharmD is a course that is expected to have a lot of hospital-based career opportunities. The limited number of subjects that orient toward the pharmaceutical industry in comparison with other pharmacy courses may make one feel PharmD graduates can work only in a hospital. But is that really true?

In fact, PharmD graduates have fewer opportunities in the pharmaceutical industry is a misconception. If you're a PharmD graduate and not a hospital person, there are various other roles you can look into. The pharmaceutical industry is offering various job roles with good pay scale for the PharmD graduates. Pharmacovigilance (PV) is one of the most important areas which offer good opportunities to PharmD graduates. Learning and dealing with a lot of ADRs during the course period gives PharmD graduates an upper hand for the role.

Since a number of new drugs are being introduced to the market periodically, career opportunities in the field of drug safety are immense. For the job roles related to PV, a qualified PharmD graduate will have to record and report adverse drug reactions into various study-related systems. PV specialist, Drug safety specialist, Drug safety associate, Drug safety scientist, Drug safety monitor, etc are some of the job roles related to the phase 4 clinical research.

Not just in phase 4 of clinical trials but also in phase 1-3 of clinical trials, there are various roles that suit the profile of a PharmD graduate. The therapeutic knowledge, a PharmD student develops during the academic days makes them suitable for roles like CRA (Clinical Research Associate). Knowledge about clinical trials and regulatory submissions makes them eligible candidates for posts like Clinical Research Coordinator and Clinical Trial Coordinator, thus can help to carry out clinical trials in an efficient and timely manner. Other job roles after PharmD includes roles like TMF- Reviewer, Clinical Data Manager, Clinical Data Associate, Clinical Review Specialist, Research Associate, Remote Site Monitor, Medical Writer, Medical Content Writer, Scientific Writer, etc...

"Career opportunities for Pharm. D graduates are not just confined to Clinical Pharmacist in hospitals. Opportunities in the industrial sector are really vast if you look for it." – Dr. Chitson Jolly O

RARE CASE REPORTS PUBLISHED

UNUSUAL CAUSE OF INTRACTABLE HICCUPS – ASIAN JOURNAL OF PHARMACEUTICAL AND HEALTH SCIENCES

- Arathy Radhakrishnan, Siby Joseph and Amit Jose

A case of persistent hiccups was resolved when an active tuberculosis infection was treated. A 61 year old male patient presented with intractable hiccups, vomiting, breathlessness and cough for 3 months. His HRCT THORAX and XRAY showed thick walled cavitary lesions in the right upper lobe. Acid fast bacilli smear tested positive – Grade 2 and he was started on anti-tubercular therapy following which his hiccups, that lasted for months, improved.



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MULTISYSTEM INFLAMMATORY SYNDROME IN CHILDREN [MIS-C] - ASIAN JOURNAL OF PHARMACEUTICAL AND HEALTH SCIENCES

- Shiyona Noyal, Rojo Joy, Lakshmi R, Siby Joseph

A case of 6-yr-old girl had bilateral Conjunctival congestion with persisting high grade fever. Initial investigations exhibited elevated inflammatory parameters such as ESR and CRP. Echocardiography displayed grade 2 Mitral regurgitation and grade 2-3 tricuspid regurgitation with mild PAH. Cardiac isoenzymes CK-MB was also elevated, suggesting myocardial cell wall injury. She was treated with antibiotics, steroids and antipyretic. RT PCR for SARS-CoV-2 was negative but antibody test was positive. Her clinical condition improved and became afebrile from day 5, inflammatory parameters were decreased and was discharged.



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PARSONAGE TURNER SYNDROME AFTER CHADOX1 NCOV- 19 CORONA VIRUS VACCINE ADMINISTRATION, ASIAN JOURNAL OF PHARMACEUTICAL AND HEALTH SCIENCES

- Helna Shaji, Anjaly M Raju, Amith K S, Lakshmi R

A 41 year old male patient developed sudden onset of severe left periscapsular pain 4 days after receiving the first dose of ChAdOx1 nCoV- 19 Corona Virus Vaccine. Initially the pain was subsided by NSAIDs and it started to disrupted the sleep. Physical examination showed weakness over the muscle. EMG and MRI of cervical spine confirmed the diagnosis of PTS. Management was done with IV methyl prednisolone plus therapy, physiotherapy with electrical nerve stimulation and exercise.



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POST COVID-19 MULTISYSTEM INFLAMMATORY SYNDROME IN ADULT - EUROPEAN JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH

- Silpa Sabu, Femi Francis, Lakshmi R., Amith Kumar S.

A 39 year old male patient who had a history of covid 19, admitted to the neurology department with the complaints of fever, myalgia, loss of consciousness associated with frothing from the mouth and postictal confusion was diagnosed with post covid multiple inflammatory syndrome in adults, status epilepticus, sepsis and acute kidney injury. The patient responded to IV antibiotics, antiepileptic, sodium valproate, IVIG as well as methylprednisolone and was discharged.



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MALIGNANT HYPERTHERMIA FOLLOWING SUCCINYLCHOLINE ADMINISTRATION- INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES REVIEW AND RESEARCH

-Jaime Elizabeth Jose , Lakshmi R , Tisha Ann Babu , Divya Jose , E.M. Hameeda

This is a case of suspected malignant hyperthermia, a 22-year-old female who was posted for emergency laproscopic ovarian cystectomy, masseter spasm was noted intra operatively after succinylcholine administration and the patient was intubated and connected to ventilator but continued to show increased ETCO₂ 60-70 mmHg intra-operatively. The temperature showed 37.8°C and a BP of 160/90. The surgery got over in 60 minutes and the ETCO₂ found close to normal towards the end of surgery. The hyper dynamic response was managed using nitroglycerin and beta blockers. After conferring adequate tidal volume and muscle power, patient was extubated in post operative ICU.



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DERMATOMYOSITIS FLARE UP: A CASE REPORT-ASIAN JOURNAL OF PHARMACEUTICAL AND HEALTH SCIENCES

-Femi Francis, Jerrin Reji Mathew, Siby Joseph, Sumesh Chacko P

A known case of dermatomyositis with flare up of symptoms like fatigue, muscle weakness, joint pain, skin rashes and occasional fever. The patient was treated with immunosuppressive drugs and steroids. He responded favourably to the treatment, successfully reversed skin changes and he was stable during discharge.



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TARGETED THERAPY WITH ALECTINIB IN ANAPLASTIC LYMPHOMA KINASE POSITIVE METASTATIC PULMONARY ADENOCARCINOMA

- Aswathi Anil, Angel Mariam Titus, Siby Joseph, Madhu C S.

A 57 year old female patient with metastatic pulmonary adenocarcinoma presented with complaints of breathlessness, cough and chest discomfort. Whole Body FDG PET-CT Scan showed metabolically active primary right lung malignancy. CT Scan suggested disseminated malignancy with metastasis, moderate right pleural and pericardial effusion and primary carcinoma lung right lower lobe. Pleural fluid was positive for malignant cells. Immunohistochemistry (IHC) revealed that the disease was ROS 1 but ALK rearrangement positive. She was initially on Docetaxel and Carboplatin, then changed to Alectinib considering the ALK(DSF3) positivity and then improved.



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ANTI TUBERCULAR DRUGS INDUCED STEVEN JOHNSON SYNDROME / TOXIC EPIDERMAL NECROLYSIS - INDIAN JOURNAL OF NATURAL SCIENCES

-Jeny Samuel, Blessy M Joseph and Sumesh Chacko

A case of anti-tubercular drugs (AKT-4 regimen) induced SJS/TEN in a 56-year-old female patient who presented with complaints of oral ulcer, blisters over the lower limb, buttocks and neck region, fever, pruritus, and urticaria. She was managed in intensive care unit with IV antibiotics, systemic and topical steroids and anti-histamines. Patient condition was improved and discharged.



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OUTREACH ACTIVITIES



WORLD KIDNEY DAY 2023

2017 and 2018 PharmD batches collaborated to perform various activities in both Lourdes Hospital and Changampuzha Park. The program was graced by the presence of Kerala High Court Chief Justice Devan Ramachandran.



WORLD LEPROSY DAY 2023

2019 PharmD batch students conducted an awareness program highlighting the theme - "Act Now". End Leprosy". A poster emphasizing the treatment protocol, causes, mode of transmission, signs and symptoms of leprosy was made.



WORLD CANCER DAY 2023

An awareness program highlighting the theme- "Close the care gap" was conducted. The students of the 2019 PharmD batch prepared a poster emphasizing the diagnosis, treatment, and prevention methods of different types of cancer.



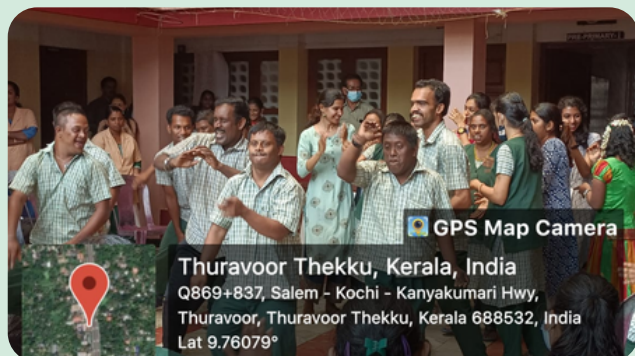
ANTIBIOTIC AWARENESS WEEK

In connection with World Health Organization (WHO), and the World Organization for Animal Health (WOAH, founded as OIE), 2019 batch PharmD students conducted antibiotic awareness program in two locations, highlighting the theme - 'Preventing antimicrobial resistance together'. A Skit and flash mob was performed at Taluk hospital, KSRTC bus station and was followed by specially prepared patient education leaflet distribution



SPECIAL SCHOOL VISIT REPORT

As a social commitment to the differently abled children, five faculty members and thirty PharmD students, visited a special school at Thuravoor, to entertain and motivate the talents of the differently abled children. It is an NGO-registered society run by Franciscan sisters. Children showcased their hidden talents like imitating the film stars, short story narration, etc.



WORLD DIABETES DAY 2022

Students from the 2020 PharmD batch conducted home-to-home visits to educate people about diabetes. The survey conducted during the visits, it was found that around 30% of the population were suffering from diabetes. The importance of lifestyle modifications, regular exercise, periodic monitoring of blood sugar levels and the importance of medications to control diabetes was emphasized. In the afternoon session, a quiz competition was organized for students on the theme of "access to diabetes education" which was portrayed through this program.



PATIENT SAFETY DAY 2022

The students from 2017 PharmD batch performed skits and dances to educate the patients and staff about various safety measures that should be taken while receiving healthcare. The program was well received by the patients and staff and was graced with the presence of doctors, nurses, and patients



ANTIMICROBIAL STEWARDSHIP TRAINING PROGRAM FOR CLINICAL PHARMACIST

Vivian and Adarsh from 2017 PharmD batch were invited to the program held at MAHE, Manipal on 22th November 2022.



HOME TO HOME SURVEY

2019 batch PharmD students conducted a home-to-home survey and patient counseling regarding medications in the nearby locality of the college as a service to society. The patients were educated regarding the disease, its complications, and the importance of medications as well as lifestyle modifications to prevent complications of these lifestyle diseases.



COCHIN KIDNEY UPDATE 2023

Aparna Grigorious and Anagha KH (2018 PharmD batch) along with Vivian Dsouza (2017 PharmD batch) were invited to attend the prestigious Annual Cochin Kidney Update by the secretary of the Association of Cochin Nephrologists Dr. Binu Upendran. The two ladies Co-anchored and hosted the event, boasting an attendance of 75+ Nephrologists and DNB students. The event was a big success.



RESEARCH WORKS 2022-2023

COMPARITIVE STUDY OF TREATMENT OUTCOME IN EPILEPTIC PATIENTS UNDERGOING SWITCH-OVER FROM LEVETIRACETAM TO BRIVARACETAM

IMPACT OF PATIENT EDUCATION BY CLINICAL PHARMACIST IN MEDICATION ADHERANCE AND QUALITY OF LIFE IN HEMODIALYSIS PATIENTS

SAFETY AND EFFICACY OF VANCOMYCIN THERAPY IN A TERTIARY CARE HOSPITAL- A PROSPECTIVE OBSERVATIONAL STUDY

AN OBSERVATIONAL STUDY TO ASSESS THE SAFETY PROFILE OF TAXANES-PACLITAXEL AND DOCETAXEL

ASSESSMENT OF SAFETY PROFILE OF IMMUNOTHERAPEUTIC AGENTS OTHER THAN IMMUNE CHECKPOINT INHIBITORS IN CANCER PATIENTS

CLINICAL BENEFITS AND TOLERABILITY OF DAPAGLIFLOZIN IN PATIENTS WITH REDUCED EJECTION FRACTION

A STUDY ON PHARMACOLOGICAL MANAGEMENT OF MIGRAINE IN A TERTIARY CARE HOSPITAL



DRUG ABUSE DAY 2022

2017 batch and 2018 batch students of PharmD, conducted an awareness campaign on drug addiction and drug abuse in the Naipunya college campus on the theme "Say No To Drugs" on November 11, 2022. A skit highlighting the various hazards of drug abuse and the ways to overcome it was performed and was well appreciated by the management, faculty members, and students of Naipunya College.



ASTHMA DAY 2023

Adarsh Unni and Rose Merin Benny (2017 PharmD batch), under the supervision of Dr. Amit P Jose and Dr Amrutha Peter, conducted an awareness program at Ashirbhavan, Kacheripady. The program aimed to educate the public about asthma and its management, and to provide free patient counseling and PFT tests for those who needed them. More than 100 people attended the program and benefited from the services.



Dr. Amrutha Peter
Senior Resident, Pulmonology, Lourdes Hospital



Dr. Amit P Jose
Senior Consultant, Pulmonology, Lourdes Hospital



Asthma Medication Awareness

RESEARCH ACTIVITIES

CPCON 2023 MANIPAL



ID CONGRESS 2023



KERALA PHARMACEUTICAL CONGRESS 2023



ONCOLOGY 2022



DR. CS MADHU

INVITED TALK SERIES

1

Clinical Pharmacy Emerging Trends

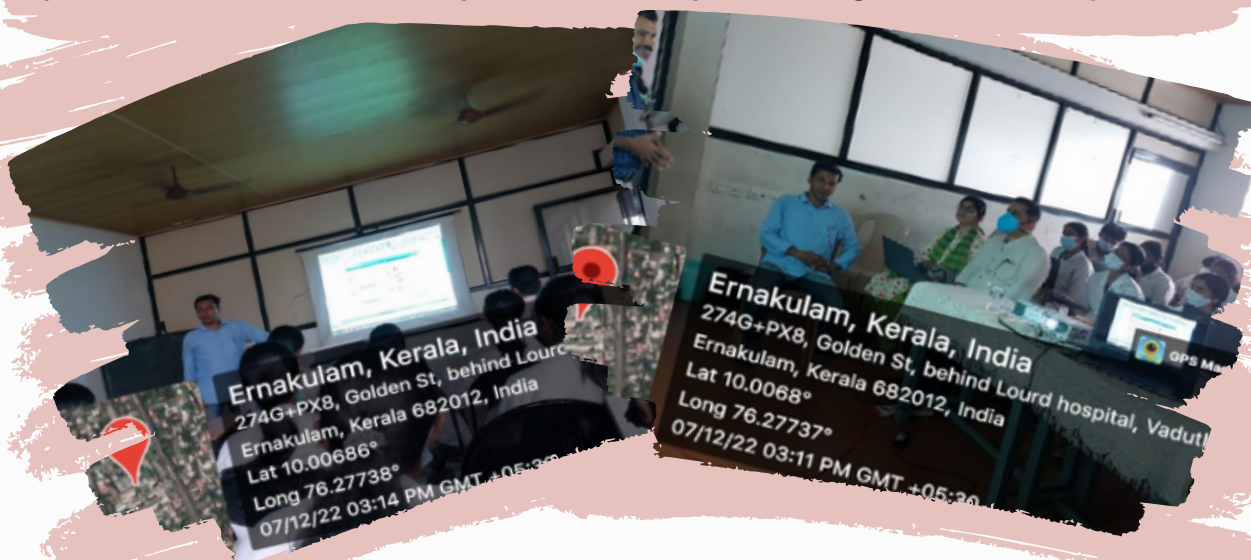
On November 26th, an invited talk titled 'Clinical Pharmacy - Emerging Trends' was delivered by Dr. Chitson J.O, Clinical Trial Coordinator at PPD. The purpose of the event was to provide insight into the career options in Clinical Research after PharmD. The session showed a wider career possibilities of pharmacists in the field of clinical research.



2

Data handling and statistical analysis using SPSS

Dept of Pharmacy Practice, St Joseph's College of Pharmacy conducted an invited talk on Data handling and statistical analysis using SPSS on 7th December, 2022. The purpose of the talk was to provide an understanding about the input of variables in SPSS, statistical tools used in bio-medical research. The talk was delivered by Mr.Vipin Xavier, Biostatistics expert of St Joseph's College of Pharmacy, Cherthala.



ACHIEVEMENTS



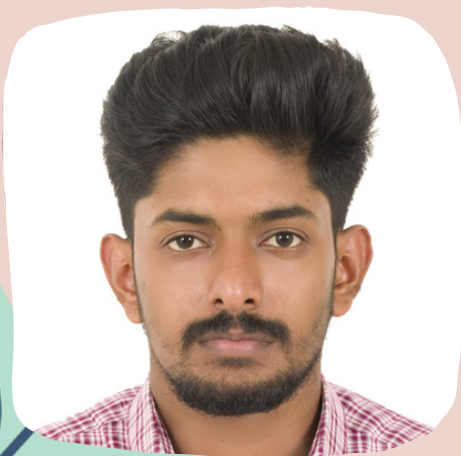
BIONA BENNY
2017 BATCH

IPGAWF 2022
E-LEAFLET FIRST PRIZE



BLESSY M JOSEPH
2017 BATCH

KAPS ACHIEVERS



DR. PETER JOSE MALIYAKKAL
2015 BATCH

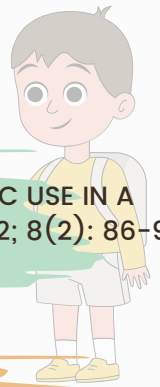


DR. FINCIYA C PAPPU
2016 BATCH



DR. DEVI S PANICKER
2016 BATCH

RECENT RESEARCH PUBLICATIONS



A STUDY ON PRESCRIBING PATTERN, INDICATIONS AND RATIONALITY OF RESTRICTED ANTIBIOTIC USE IN A TERTIARY CARE HOSPITAL. SAUDI JOURNAL OF MEDICAL AND PHARMACEUTICAL SCIENCES 2022; 8(2): 86-91.

Jaime Elizabeth Jose, Sneha C. Reji , Ashly Sunny , Binu Upendran , Lakshmi R

TOXICOLOGICAL PROFILE OF POISONING CASES IN A TERTIARY CARE HOSPITAL. SAUDI J MED PHARM SCI.;8(4):183-90.

Radhakrishnan A, George J. Amith. S, Naveen Kumar Panicker, Binu Upendran

A STUDY TO ASSESS THE MANAGEMENT OF FEBRILE NEUTROPENIA IN ONCOLOGY PATIENTS IN A TERTIARY CARE HOSPITAL. SAUDI J MED PHARM SCI, 8(7): 343-354.

Finciya C Pappu, Shaji H, Bennis S, Alex SM, Madhu CS

A STUDY ON MEDICATION RECONCILIATION AND ITS PRIORITIZATION IN A TERTIARY CARE HOSPITAL IN SOUTH INDIA. IJPPR.HUMAN, 2022; VOL. 24 (2): 1-21.

Reshma T S, Praise Mariam Abraham, Linsa Sebastian, Alan Thomas, Naveen K Panicker, Dhanya Michael

ETIOLOGICAL PROFILE, PRESCRIBING PATTERN OF ANTIBIOTICS AND CLINICAL OUTCOMES OF PNEUMONIA PATIENTS IN A TERTIARY CARE HOSPITAL IN SOUTH INDIA DURING 5-YEAR PERIOD. MGM JOURNAL OF MEDICAL SCIENCES. 2022 OCT 1;9(4):540.

Jerin Reji Mathew , Shiyona Noyal, Sijin T Biju , Siby Joseph, Dr.Amit P Jose

EVALUATION OF CHEMOTHERAPEUTIC REGIMEN AND ASSOCIATED ADVERSE DRUG REACTIONS OF COLORECTAL CANCER IN A TERTIARY CARE HOSPITAL. MGM J MED SCI 2022; 9: 400-5.

Linda Mol S, Akash Jose, Arathy Mohan, Madhu CS, Lakshmi R.

AN OBSERVATIONAL STUDY ON PRESCRIBING PATTERN OF ANTIBIOTICS IN THE NEPHROLOGY DEPARTMENT OF A TERTIARY CARE TEACHING HOSPITAL IN SOUTH INDIA. IJPPR.HUMAN, 2022; VOL. 25 (1): 135-147.

Josin Joseph, Cici Anjana Augustine, Arya Merin P John, Amrutha Shelly, Sr Binu Jose Veliyath, Binu Upendran

A STUDY TO EVALUATE THE PREVALENCE OF DIABETES MELLITUS, HYPERTENSION, AND DYSLIPIDEMIA IN PATIENTS WITH ACUTE STROKE, MYOCARDIAL INFARCTION AND/OR PERIPHERAL VASCULAR DISEASE. JOURNAL OF XI'AN SHIYOU UNIVERSITY, NATURAL SCIENCES EDITION, 2022; VOL: 65 ISSUE 03

Jeny Samuel, Sneha Joy, Rhema Maria Punnoose, Sherin Jose, Sujith Kumar S, Boby Johns. G

A RETROSPECTIVE COMPARATIVE STUDY ON THE OUTCOME OF CASIRIVIMAB -IMDEVIMAB ANTIBODY COCKTAIL TREATMENT IN COVID-19 PATIENTS. EUROPEAN JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH 2023 APR;10 (5): 229-33.

Reshma T. S, Praise Mariam Abraham, Swetha Joju, Hari Lakshmanan, Siby Joseph, Dr.Muhammed Jasim Abdul Jalal, Dr.Mohammed Iqbal, Dr.Joseph K.Joseph

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