

Clinical Pharmacy

A Newsletter of Drug and Prescribing Information

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ADVERSE DRUG REACTION REPORTS: JAN –APR 2022

A total of 583 Adverse Drug Reactions (ADRs) were reported or detected by the Department of Clinical Pharmacy during Jan–Apr 2022. The following are some of the suspected ADRs that were either reported to or detected by the Department of Clinical Pharmacy. In most of the cases, there was a change in drug therapy e.g. cessation of suspected drug or reduction in dose, and/or either specific or symptomatic treatment for the suspected ADR.

DRUG(S)	REACTION
Amlodipine	Pancytopenia
Carboplatin	Elevated Alkaline Phosphatase
Celecoxib	Elevated Serum Urea & Creatinine
Dapaglifozin	Urinary Tract Infection
Glimepiride	Photosensitivity Reaction
Indapamide	Hyponatremia
Lithium	Irregular Heart Rhythm
Methotrexate	Stomach Ulcer
Metronidazole	Insomnia
Nimesulide	Urticaria
Nivolumab	Increased Alkaline Phosphatase
Paroxetine	Dry Mouth
Phenytoin	Elevated Liver Enzymes
Rabepazole	Rhabdomyolysis

Indapamide induced hyponatremia:

Hyponatremia due to this thiazide-like diuretic is rare. It is usually seen in patients above 60 years and after 5–6 weeks of therapy. The mechanism is multifactorial that may be complicated by underlying conditions. Diuretics can cause sodium and volume depletion, stimulating antidiuretic hormone secretion and leading to dilutional hyponatremia. Other pathogenetic factors that may be involved include excessive urinary sodium loss in the presence of a low salt intake, a shift in sodium from extracellular to intracellular compartments, impaired free water excretion caused by the diuretic and reduced renal blood flow, unrestricted intake of hypotonic fluid, and concomitant drug therapy (e.g., tricyclic antidepressants, which stimulate thirst, and chlorpropamide, which has an ADH-like effect). Management involves withdrawal of drug and infusion of 0.9% NaCl with monitoring of plasma sodium concentrations.

Paroxetine induced dry mouth:

Paroxetine is a selective serotonin reuptake inhibitor (SSRI) used for treatment of depression. SSRIs induced dry mouth has been reported to result from inhibition of salivary secretion by blockade of muscarinic acetylcholine (mACh) receptors. People with greater than 50 years are at risk for developing dry mouth. Studies report reduction in symptom within one month of stopping the drug.

Phenytoin induced liver toxicity:

Phenytoin is a hydantoin derivative used in the treatment of seizures. Phenytoin induced hepatotoxicity is an idiosyncratic reaction. Studies indicate that patients on phenytoin have elevated transient serum aminotransferase. These elevations are not associated with liver histological abnormalities and are usually benign. It usually resolves even with drug discontinuation. In addition, a higher proportion of patients have mild-to-moderate elevations in gamma glutamyl transpeptidase levels, which is indicative of hepatic enzyme induction rather than liver injury. Marked aminotransferase elevations occur rarely. The exact mechanism of phenytoin induced liver toxicity is unclear. The severity of this effect ranges from self-limiting to fatal. Management consists of drug withdrawal and symptomatic treatment with monitoring of liver function tests.

We encourage you to report all suspected adverse drug reactions to Department of Clinical Pharmacy. Adverse drug reaction reporting forms are available at all nursing stations. Alternatively you may call Department of Clinical Pharmacy on 2335555 Extn. 5577 or SMS to 9035664802 (Format: ADR / IP or OP Number/Name of the patient/ Ward)

DRUGS APPROVED BY US FDA

The following are the drugs that are approved by the United States Food and Drug Administration (USFDA) during the period Jan –Apr 2022.

Name of the drug	Indication
Oteseconazole	To reduce the incidence of recurrent vulvovaginal candidiasis (RVVC) in females with a history of RVVC who are not of reproductive potential
Lutetium (177Lu) vipivotide tetraxetan	To treat prostate-specific membrane antigen-positive metastatic castration-resistant prostate cancer following other therapies
Nivolumab and relatlimab-rmbw	To treat unresectable or metastatic melanoma
Ganaxolone	To treat seizures in cyclin-dependent kinase-like deficiency disorder
Pacritinib	To treat intermediate or high-risk primary or secondary myelofibrosis in adults with low platelets
Mitapivat	To treat hemolytic anemia in pyruvate kinase deficiency
Sutimlimab-jome	To decrease the need for red blood cell transfusion due to hemolysis in cold agglutinin disease
Faricimab-svoa	To treat neovascular (wet) age-related macular degeneration and diabetic macular edema
Tebentafusp-tebn	To treat unresectable or metastatic uveal melanoma
Abrocitinib	To treat refractory, moderate-to-severe atopic dermatitis
Daridorexant	To treat insomnia

Reference: Novel Drug Approvals for 2022[internet] [cited May 2, 2022]. Available from: <https://www.fda.gov/drugs/new-drugs-fda-cders-new-molecular-entities-and-new-therapeutic-biological-products/novel-drug-approvals-2022>

DRUGS APPROVED BY CDSCO, INDIA

The following are the drugs that are approved by the Central Drugs Standard Control Organization (CDSCO) during the period Jan -Apr 2022.

Name of the drug	Indication
Triamcinolone Hexacetonide injectable suspension 20mg/ml	For intraarticular, intra-synovial or periarticular use in adults and adolescents for the symptomatic treatment of subacute and chronic inflammatory joint diseases including rheumatoid arthritis and Juvenile Idiopathic Arthritis (JIA), Osteoarthritis and posttraumatic arthritis, Synovitis, tendinitis, bursitis and epicondylitis
Gimeracil bulk & Oteracil potassium bulk and Tegafur 15mg/20mg, Gimeracil 4.35mg/5.8mg and Oteracil 11.8mg/15.8mg capsules	Indicated in adults for the treatment of advanced gastric cancer when given in combination with cisplatin.
Nitric oxide nasal spray	For treatment of adult high risk patients with mild Covid-19 having risk of progression of the disease
Vericiguat tablets 2.5mg/ 5mg/ 10mg	Indicated to reduce the risk of cardiovascular death and heart failure (HF) following a hospitalization for heart failure or need for outpatient IV diuretics, in adults with symptomatic chronic HF and ejection fraction less than 45%
Inosine pranobex bulk and Inosine pranobex 500mg tablet	As add on therapy for treatment of mild Covid-19 patients with co-morbidities and moderate Covid-19 patients, in light of Covid 19 outbreak for restricted emergency use in the country
Desidustat bulk and Desidustat tablets 25mg and 50mg	For treatment of Anemia in adult patients with chronic kidney disease (CKD) not on Dialysis and on Dialysis

Lumacaftor bulk, Ivacaftor bulk & Lumacaftor and Ivacaftor tablets 100mg/125mg and 200mg/125mg	Indicated for the treatment of cystic fibrosis (CF) in patient age 2 years and older who are homozygous for the F508del mutation in the CFTR gene.
Liothyronine sodium bulk and Liothyronine sodium tablets 5mcg & 20 mcg	To treat some of the more severe conditions in which the thyroid does not produce enough thyroxine and balance the effect of medicines used to treat an overactive thyroid.
Polyhexamethylene guanidine hydrochloride 1.000 lit	For surface disinfection
Finerenone 10mg/20mg film coated tablets	Indicated to reduce the risk of sustained eGFR decline, end stage kidney disease, cardiovascular death, non fatal myocardial infarction, and hospitalization for heart failure in adult patients with chronic kidney disease (CKD) associated with type 2 Diabetes (T2D)
Sugammadex sodium bulk and Sugammadex injection 100mg/ml (single dose vial for bolus injection, IV)	Reversal of neuromuscular blockade induced by rocuronium or vecuronium in adults undergoing surgery
Nirmatrelvir bulk and Combipack of Nirmatrelvir 300mg tablets (2x150mg tablets) and Ritonavir tablets 100mg	For treatment of adult patients with COVID19, with SpO2 >93% and who have high risk of progression of the disease including hospitalization or death, in light of Covid 19 outbreak for restricted emergency use in the country

Reference: List of Drugs Approved in the year 2022 till date [internet] [cited May 02, 2022]. Available from: https://cdsco.gov.in/opencms/opencms/system/modules/CDSCO.WEB/elements/download_file_division.jsp?num_id=ODMwNw==

COVID-19 Vaccines Approved for Emergency Situation in India

The following are the drugs that are approved by the United States Food and Drug Administration (USFDA) during the period Jan – Apr 2022.

Sl. No	Vaccine	Firm and date of approval	Dosing schedule	Approved for age group	Route of administration and storage
1.	Recombinant adenoviral vector vaccine containing particles of serotype 26 containing the protein S gene of the SARS-CoV-2 virus (SPUTNIK Light)	M/s Dr. Reddy's Lab. Ltd. (Importer) 05.02.2022	Single dose	For ≥ 18 years age	Intramuscular -18°C
2.	SARS-CoV-2 vaccine containing Receptor Binding Domain (RBD) of SARS-CoV-2 gene (CORBEVAX)	M/s Biological E Limited 21.02.2022	Two doses, Day 0 & 28	For ≥ 12 years age	Intramuscular 2-8°C
3.	SARS-CoV-2 rS Protein (COVID-19) recombinant spike protein Nanoparticle Vaccine [COVOVAX]	M/s Serum Institute of India Pvt. Ltd. 08.03.2022	Two doses, Day 0 & 21	For ≥ 12 years age	Intramuscular 2-8°C
4.	Recombinant adenoviral vector vaccine containing particles of serotype 26 containing the protein S gene of the SARS-CoV-2 virus (SPUTNIK Light)	M/s Hetero Biopharma Ltd 16.03.2022	Single dose	For ≥ 18 years age	Intramuscular -18°C

Reference: COVID-19 vaccines approved for Restricted Use in Emergency Situation in the country. [internet] [cited May 02, 2022]. Available from: https://cdsco.gov.in/opencms/opencms/system/modules/CDSCO.WEB/elements/download_file_division.jsp?num_id=ODI3OA==

A drug that combats airway hyper-responsiveness through TXA2 antagonism

Seratrodist, a quinone derivative, is a potent, orally active and long-acting thromboxane A2 (TXA2) receptor antagonist that is approved for management of asthma. It was marketed in Japan & parts of China since its discovery in 2003. Most research on broncho-constriction has focused on mediators of inflammation that act locally at the bronchioles, mainly SRS-A (slow reacting substance of anaphylaxis). Compounds that prevent the action of leukotrienes, like leukotriene antagonists have been used in the therapy of asthma. Researchers also synthesized substances (AA-861) that inhibit 5-lipoxygenase, but they were quickly metabolized in the body. A new compound (AA-2424), not easily metabolized and inhibiting both immediate and late asthmatic responses as well as reduced airway hyper-responsiveness in animal models was synthesized in 1999, that was called Seratrodist.

Seratrodist demonstrated Thromboxane A2 (TXA2) receptor antagonism and was reported to be free from harmful aftereffects. TXA2 has multiple actions in pathophysiology of asthma that includes, constriction of bronchial smooth muscles, stimulation of airway smooth muscle cell proliferation, stimulating vagal sensory nerves to induce airway hyper-responsiveness, increased airway microvascular leakage, increased mucous secretion, and potentiated cholinergic neurotransmission.

In an open-label cross-over design study of 10 adult asthmatics, additional effects of oral seratrodist to inhaled corticosteroids was assessed. Clinical symptoms and mean PEF (peak expiratory flow) significantly ($p < 0.05$) improved after seratrodist administration, as well as deterioration in PEF was observed after seratrodist withdrawal. It also improved airway hyper-responsiveness to acetyl choline and decreased concentrations of ECP (eosinophilic cationic protein) in the

sputum. The authors concluded that adding seratrodist to inhaled corticosteroids may be beneficial in bronchial asthma.

The drug has been approved for use in prophylactic management of asthma, allergic rhinitis, & chronic bronchitis in adults. Some literature suggest that it is useful in allergic asthma. It is classified as a controller medication as per GINA guidelines. In India, it was approved in December 2012 as an add-on controller medication in asthma. Currently approved dose is 80mg once daily in the evening, a dose of up to 320mg/day is well tolerated. Elderly may require a lower dose (40mg) as the AUC and half-life were twice that of normal adults. Adverse reactions reported commonly were elevated liver enzymes, anemia, abdominal pain & other GI disturbances and rash/itching. Cautious use is advised in patients with hepatic impairment and it is not recommended for treatment of acute asthma.

Though the drug is in existence since 2003, apart from a handful of studies performed in few patients, no data regarding long term safety of the drug, or comparative effectiveness data are available. Moreover, the literature suggests that it is useful as an add-on therapy in asthma. Cautious prescribing of the drug is advocated until more data from the country and elsewhere is available.

References:

1. Fukuoka T et al, *The effect of seratrodist on eosinophilic cationic protein and symptoms in asthmatics. J Asthma 2003*
2. S Terao et al, *Thromboxane A2 antagonist – discovery of Seratrodist. (article in Japanese) May 1999*
3. *Zuventus Seretra Product Monograph, Accessed from http://www.zuventus.co.in/doctor_wise_products_selected.aspx?Medi_Id=154, on 23 May 2022*

New Drug for Wilson's Disease

The US Food and Drug Administration (FDA) has approved oral trientine tetrachloride (*Cuvrior*, Orphalan) for the treatment of adults with stable Wilson's disease who are decoppered and tolerant to penicillamine. Wilson's disease is a rare genetic storage disease caused by a defect in a copper transporter gene, leading to copper accumulation in the liver, brain, eye, and peripheral nerves.

Trientine is a copper-chelating agent that removes copper from the body by forming a stable complex that is eliminated through urine. Trientine may also inhibit copper absorption from the intestinal tract. In the global phase 3 CHELATE trial, the new drug met its primary efficacy endpoint by

demonstrating noninferiority to penicillamine as measured by nonceruloplasmin copper.

Penicillamine is currently approved as a first-line treatment of Wilson's disease in the United States, with about one-third of patients developing intolerance. Trientine tetrahydrochloride is already on the market in Europe, where it is sold as Cuprior. Orphalan expects to launch Cuvrior in the United States by early 2023.

Reference: *Brrok M. FDA Approves New Drug for Wilson's Disease. [internet] [cited 4 May 2022] Available from: <https://www.medscape.com/viewarticle/973370>*

DEPARTMENT ACTIVITIES

A series of activities were organized by the Department during Jan-Apr 2022 for the benefit of Faculty, Pharm.D,

Postgraduate Pharmacy Practice students and Practicing Pharmacists.

Workshop on 'Objective Structured Clinical Examination (OSCE)'

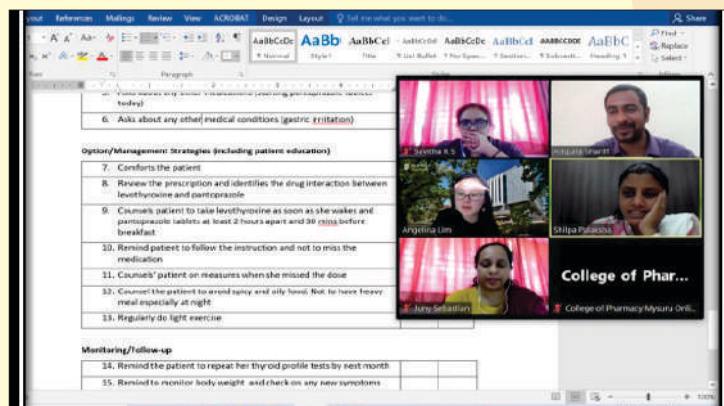
Department of Pharmacy Practice & Pharmacy Education Unit (PEU), JSS College of Pharmacy, Mysuru jointly organised an online workshop on 'Objective Structured Clinical Examination (OSCE)' on 9th March 2022. The workshop was organised with an aim to provide an insight into OSCE as a method of evaluation to assess the students' clinical skill performance and competency. The event began with opening remarks by **Dr. T. M. Pramod Kumar**, Dean, Faculty of Pharmacy, JSS AHER, Mysuru. In his opening remarks, he highlighted that the OSCE is an innovative method of evaluating students' skills and also as a learning methodology that provides ready feedback to the students that help them perform better in real-life practice. **Dr. M. Ramesh**, Professor & Head, Dept. of Pharmacy Practice presented the overview of the workshop. In his address, he mentioned that it is important to enhance the understanding and as well orient the staff on the process of OSCE in order to build the required competencies and clinical skill performance amongst students during their graduation.

Dr. Savitha RS, Associate Professor, Dept. of Pharmacy Practice introduced the resource person to the participants. Faculty members of Dept. of Pharmacy Practice, JSS College of Pharmacy, Mysuru were the participants for the OSCE workshop.

The workshop included the orientation about the basic concepts of OSCE, followed by a

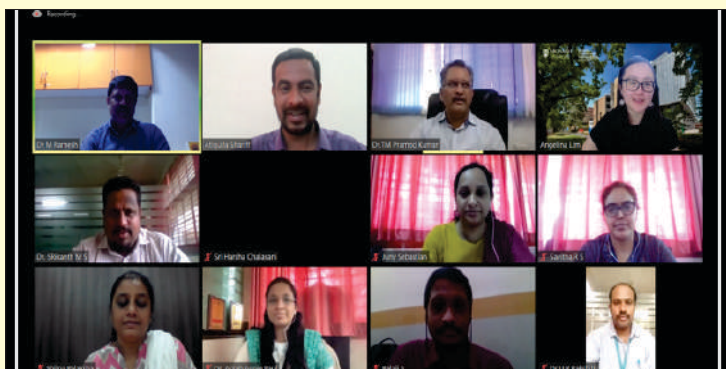
hands-on training session on piloting OSCE cases, analytical check-lists and props. The OSCE material (OSCE cases, analytical check-lists and props) that was developed by the Dept. Faculty in advance were piloted & recorded with the help of fifth PharmD students one week prior to actual day of workshop.

Atiqulla Shariff, Research Scholar, Department of Pharmacy Practice, facilitated the group activity. During which, the participants were exposed to the pre-recorded OSCE case piloting videos and were asked to identify the areas of improvement in the OSCE cases, analytical checklists and props based on the student feedback. During this interactive session, all the participants attended to the students' feedback and improved the OSCE material so that the students can better perform the OSCE stations. At the end of the session, the participants were able to understand the process of designing and piloting of OSCE cases, analytical check-lists and props in their respective courses.



During Discussion

Dr. Srikanth M. S. Member Secretary, PEU, JSSCP, Mysuru, assembled the feedback of Participants about the workshop during wrap-up session and proposed the vote of thanks. The event ended by thanking all the administrators both at JSS AHER & JSS College of Pharmacy, Mysuru, the resource person of the workshop and all the participants for their contribution towards success of the event.



Inauguration of the Workshop

Webinar on Real World Data

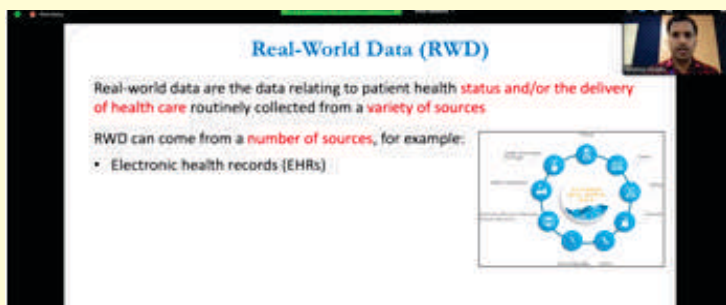
Department of Pharmacy Practice, JSS College of Pharmacy (JSSCP), Mysuru organized an Webinar on the topic "Real World Data" on 21st April 2022 for the benefit of Pharm.D and M. Pharm (Pharmacy Practice) students. The speakers of the webinar were **Prof. K. Arnold Chan**, Director, Department of Medical Research Director, Clinical Trial Center, Professor, National Taiwan University College of Medicine, National Taiwan University, Taiwan and **Dr. Krishna Undela**, Assistant Professor, Department of Pharmacy Practice, National Institute of Pharmaceutical Education and Research, Guwahati were the speakers. The webinar was organized with an objective to orient students on the need of Real World Data in daily clinical practice and research. **Dr. M. Ramesh**, Professor

& Head, Dept. Pharmacy Practice, JSS College of Pharmacy, JSS AHER, Mysuru welcomed the speakers.



Dr. M Ramesh welcoming the guest

Dr. Krishna Undela delivered the *first session* of the webinar on the topic '**Introduction to Real World Evidence**'. During his talk, he explained about various sources of data for real world evidence and difference between randomized clinical trails & real world evidence and its applications in daily clinical practice and research.



Dr. Krishna Undela during his lecture

The *second session* was from **Prof. K. Arnold Chan** and he delivered a talk on '**Real World Data for Regulatory Decision Making**'. During his talk, Prof. Chan emphasized on how real world data can support the regulators in decision making and its implications with several evidences.

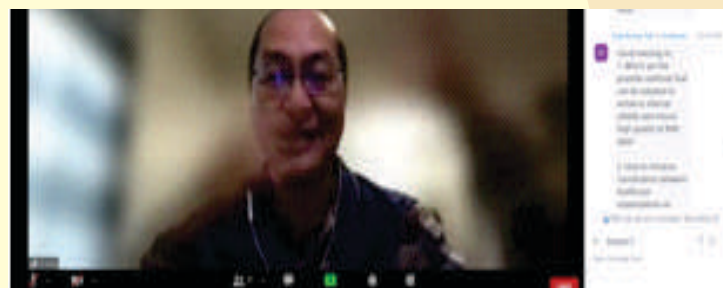
Health data and research

- Primary data (collected for research purpose)
 - For clinical trials
 - For registry
- Secondary data (for other reasons)
 - Electronic medical records
 - Health insurance claims



Prof. K Arnold Chan during his lecture

At the end of the sessions, students were given opportunity to ask questions and both the speakers interacted with participants to clarify their doubts. Around 72 students attended the webinar and benefited.



Speakers during question & answer session

Guest Lectures conducted by the Department

Guest Lecture on 'Signal Detection in Pharmacovigilance'

Adverse Drug Reaction Monitoring Centre (AMC) & The Regional Training Centre for South Zone- PvPI, Department of Clinical Pharmacy, JSS Medical College & Hospital, Mysuru conducted a Guest lecture in association with Special Interest Group – 'Quality & Safe Use of Medicine' on the topic “**Signal Detection in Pharmacovigilance**” for the benefit of Pharm.D, Postgraduate Pharmacy Practice students and Doctoral Research scholars on 18th February 2022 on hybrid mode. **Dr. Krishna Undela**, Assistant Professor, National Institute of Pharmaceutical Education and Research (NIPER), Guwahati, Assam was the speaker. The objective of this guest lecture was to provide an insight into the process of signal detection in pharmacovigilance and its significances in patient safety.

Dr. M. Ramesh, Coordinator, AMC-JSS Medical College & Hospital, Mysuru welcomed the speaker **Dr. Krishna Undela** and briefed the gathering on importance of signal detection in Pharmacovigilance. Later, **Dr. Sri Harsha Chalasani**, Deputy Coordinator introduced the speaker to the audience.

Dr. Krishna Undela, in his talk, he discussed on qualitative and quantitative methods of signal detection and explained on different ways to calculate disproportionality, using the

methods like Reporting Odds Ratio (ROR) or the Proportional reporting ratio (PRR) and the Information Component (IC) in detail. Later, he highlighted the importance of signal detection in Pharmacovigilance and its significances. Also, he enlightened the students on the process of collection of ADR reports and steps involved in new signal detection.



Dr. Krishna Undela during the session

A total of 60 students attended the session and gained an understanding on the various methods followed and its significances in the regulatory decision-making process, and participants were benefited from attending the session.

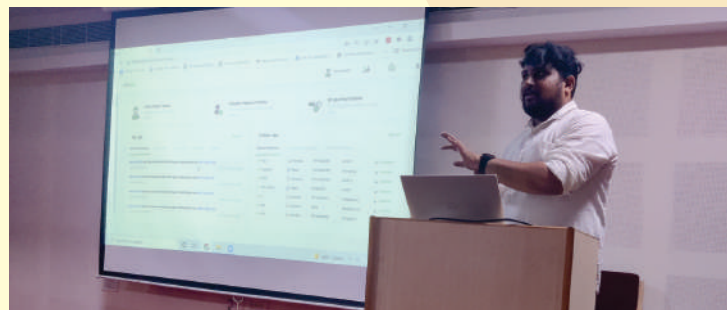
Guest Lecture on Artificial Intelligence Based Tool for Provision and Documentation of Clinical Pharmacy Services'

The Department of Pharmacy Practice, JSS College of Pharmacy (JSSCP), Mysuru in association with Pharmacy Education Unit, JSSCP, Mysuru, organized an guest lecture on the topic “Artificial Intelligence Based Tool for Provision and Documentation of Clinical Pharmacy Services” on 25th February 2022 for the benefit of Pharm.D and M. Pharm

(Pharmacy Practice) students. **Dr. Gaddam Bhanu Prathap**, Founder & CEO, CliniRex, Hyderabad and Alumni of JSSCP, JSSAHER, Mysuru was the speaker. The lecture was organized with the objective to orient students on the application of artificial intelligence as a tool in the provision and documentation of clinical pharmacy services.

Dr. Bhanu Prathap, during his talk, said that the complexity and rise of data in healthcare means that artificial intelligence (AI) will increasingly be applied within the field. Several types of AI are already being employed by payers and providers of care, and life sciences companies. The key categories of applications involve diagnosis and treatment recommendations, patient engagement and adherence, and administrative activities. Thereon, the documentation of Clinical Pharmacy Services, that falls under the administrative activities, could use the help of AI and streamline the processes of documentation and archival. With artificial intelligence assistance, one could visualize the data and identify the lacunes and optimize the shortcomings.

At the end of the session, participants were given opportunity



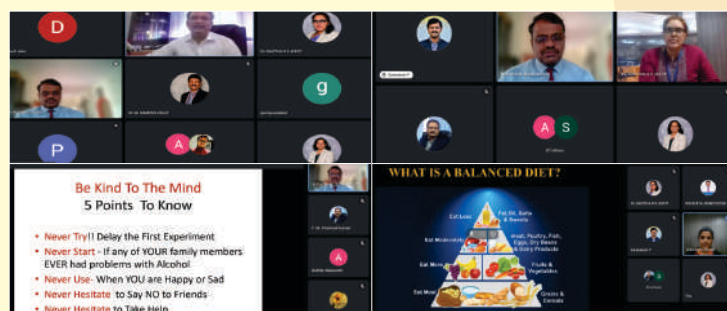
Mr. Bhanuprathap during the lecture

to interact with the speaker to clarify their doubts. Around 55 PharmD and Postgraduate Pharmacy Practice students attended the guest lecture and benefited

Guest lectures conducted during the celebration of 'World Health Day' 2022

On the occasion of celebration of '**World Health Day 2022**', the Department of Pharmacy Practice, JSS College of Pharmacy, Mysuru organized a virtual Guest Lectures on 7th April 2022. The theme for the World Health Day 2022 was '**Our Planet, Our Health**'.

The program began with opening remarks by **Dr. T. M. Pramod Kumar**, Principal, JSS College of Pharmacy, Mysuru. He spoke about this year's theme and expressed that every individual must take a step forward in consciously improving his or her health. **Dr. M. Kishor**, Associate Professor, Department of Psychiatry, JSS Medical College & Hospital, Mysuru delivered the first lecture on the topic '**Be kind to the Mind**'. Dr. Kishore began his talk with the effects of COVID-19 on the mental health of the general public. Later, he spoke about the war situation in certain part of the World and the kind of devastation that it can have on the people. Also, he touched upon smoking and alcohol abuse and its effects. Giving simple examples from life scenarios, he enumerated the effects of these noxious habits that can deter a person from achieving his goals. In his talk, he emphasized about emotional and social habits to cultivate, developing resilience, and adopting a value-based compassionate mindset that can enrich a person's life. Also, he emphasized on measures to be taken to avoid suicidal deaths among adolescents & young adults. During his talk, he mentioned about helplines, support groups and confidential apps available for students of JSS AHER and public to reach out when they feel they need to talk to someone.



Glimpses of guest lecture

The second guest lecture was on the topic '**Eat Health - Stay Wealthy**' that was delivered by **Ms. Meghana K N**, Dietician, Department of Nutrition & Dietetics, JSS Hospital, Mysuru. Ms. Meghana began her talk by emphasizing on the importance of diet in preserving a healthy body free from diseases. She spoke about the Food Pyramid and gave a brief overview of the different types of food, their sources and their benefits. Also she listed out the various foods that fall under low calorie, moderate calorie, and high calorie. Later, she touched upon 'fad diets' that are in vogue and their side effects and also mentioned that one type of diet may not suit everyone.

Both the speakers Dr M. Kishor and Ms. Meghana responded to queries from the audience before concluding the session. A total of 101 students from constituent colleges of JSS AHER attended the guest lectures, and they expressed that the program was informative and benefited them. **Dr. Savitha R S**, Associate Professor and **Dr. Siddarth N D**, Resident at Department of Pharmacy Practice coordinated the event.

International Clinical Rotation of Student from School of Pharmacy, Pacific University, USA

As a part of MOU between JSS AHER, Mysuru and School of Pharmacy, Pacific University, Oregon, USA, **Ms. Robin Demoski**, Pharm.D student from School of Pharmacy, Pacific University, Oregon, USA arrived at JSS College of Pharmacy, Ooty under student exchange program on 9th February 2022. The objective of the experiential program was to expose the student to an international rotation focused on public health and infectious diseases that are common in developing countries. She underwent clinical rotation for one month

commencing from 10th February to 10th March 2022. Ms. Robin completed her initial 20 days in JSS College of Pharmacy, Ooty and experienced the clinical practice at Government District Head Quarters Hospital located at Ooty.

Later, she underwent her clinical rotation at JSS hospital, Mysuru from 2nd to 10th March 2022. During her clinical rotation, she was introduced briefly to various Clinical Pharmacy services provided by the Department of Clinical Pharmacy located at JSS Hospital, Mysuru. Later, she was

posted to Department of Medicine for 3 days to learn about most common diseases and the patient care services. Also, she was posted to Department of Surgery and Department of Pediatrics two days each to get an exposure to the management of some of the common surgical conditions and common diseases of pediatrics respectively. During the posting, she could understand the difference in the management of most common diseases in India and in United States.

Further during her clinical rotation, she was exposed to ambulatory patient counseling and education centre, JSS Minds initiatives and Immunization centre. She had taken up various cases from the departments posted and discussed them with their respective facilitators. Also, she attended the case presentations with Pharm.D Interns, and presented a case on

Dengue on 9th March 2022. She expressed that her clinical rotation both at Ooty and Mysuru campuses was very useful and was good learning experience and memorable one.



Ms. Robin with the staff & students of the department

Outreach Programs

Awareness Program on Patient Safety

The Regional Training Centre for South Zone, JSS Medical College & Hospital, Mysuru in association with JSS AHER DST-STUTI organised a week-long “**Awareness Program on Patient Safety**” from 22nd – 28th February 2022 at different Schools and Colleges located in and around Mysuru and Chamrajnagar Districts, Karnataka.

Dr. Juny Sebastian, Assistant Professor and **Ms. Shilpa Palaksha**, Associate Professor, Mysuru along with Pharm.D Interns of JSS College of Pharmacy, Mysuru educated the students of JSS Women's College, Kollegal by demonstrating a video about Detection, Reporting & Monitoring of Adverse Drug Reaction. They also educated the students of JSS Women's College, Chamrajnagar on 'Pharmaceutical Care' services with special emphasis on patient safety reporting & monitoring and medication management through video demonstration and distributed the pamphlets.



Dr. Sri Harsha Chalasani during the discussion



Dr. Siddartha & Pharm.D interns during the discussion



Ms. Shilpa Palaksha, Dr. Juny Sebastian & Pharm.D Interns



Dr. M. Umesh & Pharm.D Interns during the session

Dr. M. Umesh, Assistant Professor and **Dr. Siddartha**, Clinical Pharmacist, Dept. Pharmacy Practice, JSS College of Pharmacy, Mysuru along with Pharm.D Interns of JSS College of Pharmacy, Mysuru educated the students of JSS High School located at Gundlupet on implications of use of Over-the-Counter (OTC) medications. And also educated them on how to identify the adverse reactions and channels to report the suspected adverse drug reactions. **Dr. Sri Harsha Chalasani**, Assistant Professor and **Dr. Rahul Krishna Puvvada**, Research Scholar, Dept. Pharmacy Practice, JSS College of Pharmacy, Mysuru, along with Pharm.D Interns of JSS College of Pharmacy, Mysuru educated the students of JSS School, Sargur on rational and safe use of medicines. Also, staff educated the students on first aid measures in case of poisoning and also on accidental poisoning and its prevention.

Dr. Siddartha, Clinical Pharmacist and **Dr. Rahul Krishna**

Puvvada, Research Scholar, Dept. Pharmacy Practice, JSS College of Pharmacy, Mysuru, along with Pharm.D Interns of JSS College of Pharmacy, Mysuru educated the students of Govt. School located at Varuna on how to use the medicines safely and the importance of taking medicines as prescribed by the physician, and also the precautions need to be taken while taking medicines.

Dr. Siddartha, Clinical Pharmacist and **Dr. Rahul Krishna Puvvada**, Research Scholar, Dept. Pharmacy Practice, JSS

College of Pharmacy, Mysuru along with Pharm.D Interns of JSS College of Pharmacy, Mysuru educated the students of JSS School located at Suttur on safe use of medicines, how to dispose the expiry drugs, how to identify and report the adverse effects if experienced due to medication.

Overall, around 2500 students from various institutions located in and around Mysuru and Chamarajanagar districts participated in the awareness program.

Awareness Program on 'Reproductive Health in Women'

The Department of Pharmacy Practice, JSS College of Pharmacy, Mysuru held a community awareness program about reproductive health in women on 26th and 28th March 2022 at Majjigepura Village of Srirangapatna Taluk. This activity was held during the National Service Schedule (NSS) camp held between 24 – 30th March that was conducted by JSS College of Pharmacy in association with JSS Academy of Higher Education and Research, Mysuru. This exclusive women's program was intended to bring awareness to women residing in rural area about their reproductive health, which pertains to indicator 3.7 of 'Sustainable Development Goals (SDG) 3: Good Health & Well-being'. Information about Menstrual hygiene, Polycystic ovarian syndrome, Cervical cancer and its prevention and Nutrition for women's health was provided in the program.

Ms. Pooja Dwivedi, Research Scholar provided information about menstrual hygiene and cervical cancer and its prevention using power point presentations. **Ms. Samaksha PB**, Research Scholar spoke about polycystic ovarian syndrome and



Glimpses of activities held on March 28, 2022

Nutrition for women's health. Educational videos pertaining to the topics in the local language were played in the town square. An educational leaflet on Cervical Cancer and its prevention in the local language was circulated among the women. Faculty visited the houses in the hamlet and distributed leaflets, spoke to the women and clarified their queries.

Dr. Savitha R S, Associate Professor, **Mrs. Shilpa Palaksha**, Associate Professor, **Dr. Juny Sebastian**, Assistant Professor, **Dr. Siddartha ND**, Clinical Pharmacist, **Ms. Samaksha PB**, Research scholar, **Ms. Pooja Dwivedi**, Research scholar, Department of Pharmacy Practice, JSS College of Pharmacy, Mysuru were involved in coordinating the program.

The program was well received by the people of the village and we are hopeful that the activity has improved the knowledge of women and encouraged them to seek medical care when necessary.



Glimpses of activities held on March 26, 2022

Health Screening Camp

Department of Pharmacy Practice, JSS College of Pharmacy, Mysuru, in collaboration with NSS Unit of JSS College of Pharmacy, Mysuru organized a Health Screening Camp between 25th – 29th March 2022 at four different villages Viz.,

Majjigepura, Bastipura, Hulikere between 10.00 AM and 02.00 PM. The aim of the health screening camp was to sensitize the people about the importance of regular monitoring of health and safe use of medications. During the camp, interested public



During the health screening camp

were screened for blood pressure and blood glucose levels. A total of 360 people were monitored for their blood pressure and blood glucose levels. At the time of monitoring, 102 people were found with elevated blood glucose level and 126 people were found with elevated levels of blood pressure. People who were identified with the elevated levels of blood pressure and

blood glucose levels were advised on Non-Pharmacological management and suggested to consult physician for further diagnosis & treatment. We thank Principal, JSS College of Pharmacy, Mysuru, and NSS Unit of JSS College of Pharmacy, Mysuru for their support and encouragement in organizing this camp

Awareness Program on Pharmacovigilance

Adverse Drug Reaction Monitoring Centre (AMC) & The Regional Training Centre for South Zone- PvPI, Department of Clinical Pharmacy, JSS Medical College & Hospital, Mysuru conducted an “Awareness Program on Pharmacovigilance” for the benefit of Pharm.D students and Staff at Siddhartha College of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh on 14th February 2022. The program was conducted in order to sensitize and create awareness amongst Pharm.D students about the importance of detection, reporting and monitoring of adverse drug reactions (ADRs).

Dr. Sri Harsha Chalasani, Deputy Coordinator, AMC & RTC, JSS Medical College & Hospital, Mysuru talked to the students & staff on the importance, need of Pharmacovigilance in the present scenario and the various channels of reporting an adverse drug reaction including the essential elements of an ADR report, and the assessment of causal relationship.



Dr. Sri Harsha Chalasani during the session

The awareness session was continued with an in-depth discussion on role of Pharmacy students in patient safety, and following which the session ended with question & answers, in which the doubts of the students were clarified.

A total of 70 participants including staff & Pharm.D students attended the awareness program and got benefited by gaining the understanding on process of functioning of Pharmacovigilance system in India.

Awareness Programme on Poison Information Centre at NSS Special Camp – 2022

The Department of Pharmacy Practice, JSS College of Pharmacy, Mysuru organized and created awareness on Poison Information Centre (PIC) located at JSS Hospital, Mysuru during the NSS Special Camp-2022 held during 24th - 30th March 2022 at Hulikere, Basthipura and Majjigepura villages located in Sriranga Patna Taluk, Mandya District. We created awareness among the general public and villagers on the various activities carried out by the Poison Information Centre and Department of Pharmacy Practice by installing the posters at various strategic locations including Primary Healthcare Centre (PHC), Schools, Gram Panchayat office and public places like bus stand and also near the temples.

Further, we educated the public on first aid measures to be followed in case of snakebite, pesticides poisoning, and also on prevention of poisoning in elderly and pediatric populations. During the awareness program, pamphlets, education materials on poison information centre and its activities were distributed among the villagers. Also the villagers were made aware of 24X7 Toll-Free number (1800 425 0207) and mobile number (+91 6363539153) for seeking the information on management of different types of poisoning cases. Also, they were made aware of The Poison Information Google App service that provides all the information on locally available poisonous substances and management of poisoning cases, first aid measures, standard poison treatment protocols.



During the Awareness Program on Poison Information Centre

Sensitisation and Awareness Programme on Adverse Drug Reaction Reporting, Safe Use of Medications and Distribution of Free Medications for Minor Ailments Amongst Rural Population

Adverse Drug Reaction Monitoring Centre (AMC) & The Regional Training Centre for South Zone- PvPI, Department of Clinical Pharmacy, JSS Medical College & Hospital, Mysuru conducted a sensitization and awareness

programme on 'Adverse Drug Reaction Reporting & Safe Use of Medications' at three villages Viz., Majjigepura, Bastipura and Hulikere located in Sriranga Patna Taluk, Mandya District during 25th – 29th March 2022. The aim of the awareness

program was to sensitize the people of those villages about the importance of adverse drug reaction reporting and safe & quality use of medications. During the program, public of all three villages were educated on the general aspects of adverse drug reactions and its reporting including how to report, where to report and modes of reporting. Also, they were educated on safe use of medications including how to take the medicines safely and their appropriate use. More than 420 people (318 houses) from all three villages were benefited from the programme.

Also, during the awareness program, people of the villages were provided with free medications for minor ailments like



During the Awareness Program on ADR Reporting

fever, body pain, cold, cough and headache in a separate cover detailing its name, purpose and usage instructions. More than 250 people from all three villages were benefited from the programme.

Also, during the awareness programme, general public and villagers were educated on the poison information services, safe use of medicines, safety precautions to be taken while using medications in elderly population, children and also about safe storage of medications. More than 300 villagers were covered during the awareness program. During the awareness session, **Dr. Umesh M**, interacted with villagers to further clarify their doubts



Free medication packs detailing usage instructions

e-Poster and Animation Video Making Competition Organized on the Occasion of 'World Health Day 2022'

The Department of Pharmacy Practice, JSS College of Pharmacy, Mysuru organized e-poster and animation video making competition on the occasion of 'World Health Day 2022' celebrated on 7th April 2022 with the theme 'Our Planet, Our Health'. The competition was open to students of constituent Colleges of JSS Academy of Higher Education & Research, Mysuru and a brochure announcing the same was circulated to all the colleges a week before the event. The themes for the e-poster and animation video were 'Be Kind to the Mind' and 'Eat Healthy – Stay Wealthy' respectively. Students were required to register for the event prior to participation. There were a total of 37 registrations for e-poster and 12 for animation videos.

Students registering for the event were sent instructions for preparing e-poster or animation videos as appropriate. On the designated day, students uploaded their posters or videos within the stipulated time. Staff members of the Department of Pharmacy Practice evaluated the e-posters and the animation videos to choose the best two in each category. The winners of the competitions were announced by **Dr. M. Ramesh**, Professor & Head, Department of Pharmacy Practice during the virtual Guest Lecture that was organized on 7th April 2022. The winners of the e-poster made a short presentation about their poster. The best two animation videos were played and the winning posters were displayed during the award announcement session. **Ms. Reshma Bobby**, Pharm.D Intern, JSS College of Pharmacy, Mysuru and **Ms. Pooja Sagar**, Student of MSc in Cognitive Neuroscience at Faculty of Life

Sciences, JSS AHER, Mysuru bagged First and Second prizes respectively under e-poster competition. **Mr. Siddharth Matad**, second year M. Pharm student of JSSCP, Mysuru secured the first prize in animation video, and **Ms. V. S. Anupama**, Student of BSc Psychology, Faculty of Life Sciences, JSS AHER, Mysuru won the second prize. Cash prizes for the winners were distributed at the Annual Day celebrations of JSS College of Pharmacy, Mysuru held on 13th April 2022. **Dr. R. S. Savitha**, Associate Professor, **Dr. Juny Sebastian**, Assistant Professor, and **Dr. Siddharth Dhurappanavar**, Resident at the Department of Pharmacy Practice coordinated the event.



Glimpses of the e-poster and video animation competitions

Awards and Accolades

- **Ms. Samaksha P B, PhD Scholar** received the **Best Student Award 2022** during 15th Indo-Malaysian International Conference GPUCPS-2022 held on 12 March 2022.
- **Ms. Jehath M Syed, PhD Scholar** secured the **Third Place in virtual oral competition** held for 'Late S Tarsem Jain Memorial Award 2022' during the 15th Indo-Malaysian International Conference GPUCPS-2022 held on 12 March 2022.
- **Ms. Anmaria Thomas, Pharm D Intern** received the **Best Student Award** during the first Indo- Japanese International Conference organized by Association of Pharmacy Professionals on 9th April 2022.
- **Ms. Ann V Kuruvilla** secured **First Place in Virtual Oral Competition** for her presentation titled 'A Clinical Pharmacist driven initiation of Handshake Antibiotic Stewardship Program in Surgery Units of a Tertiary Care Hospital' at the Indo-Japanese International Conference organized by Association of Pharmacy Professionals on 9th April 2022.
- **Ms. Ravina Ravi, PhD Scholar** secured **Second Place in Virtual Oral Competition** for her presentation titled 'A clinical pharmacist assisted medication incident reporting system in a tertiary care teaching hospital' at the Indo- Japanese International Conference organized by Association of Pharmacy Professionals on 9th April 2022.
- **Ms. Sudeeksha Prabhu, I M Pharm student** received the **Second Place for e-Poster** titled ' Does level of depression impact the antiretroviral medication adherence among HIV positive patients?' presented at the National Conference on Pharmaceutical Science 2022 organized by Department of Pharmaceutics, JSS College of Pharmacy, Mysore during 8th & 9th April 2022.
- **Mr. Atiqulla Shariff & Mr. Sujith Kumar Sah, PhD Scholars** received the ISPOR Conference Grant to attend Virtual ISPOR 2022 conducted during May 15-18, 2022.

The Drug & Poison Information Service

Our Department can help you with any questions you might have on the use of medicines or the management of poisoned patients. Also, we can assist you with any medication related problems you face in your daily practice. The services are made available on all working days and it is provided free of cost. We request you to avail the drug and poison information services.

We extended our services 24*7 from 8th October 2018 for the benefit of HCPs and Patients.

24* 7 Mobile Number: 6363539153, Toll free Number - 1800-425-0207

Landline Number: 2335555, Extn - 5577

E-mail: dic.jsscp@jssuni.edu.in; pic.jsscp@jssuni.edu.in;

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Your suggestions are welcome. Please send your comments/suggestions to the editors at: dic.jsscp@jssuni.edu.in

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