



# DigiDose

THE QUARTERLY DISPENSE

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# EDITOR'S INK

THE QUARTERLY NEWSLETTER OF THE PHARMACY LITERACY CLUB

Greetings from the Pharmacy Literacy Club!

We proudly present the 4th edition of our quarterly newsletter, 'DigiDose'. It has always been a goal of the PLC to provide practical knowledge valuable for students and healthcare workers. To honour that promise, we had a busy quarter with a series of guest lectures, competitions, outreach programs and much more...

On the 13th of August, Dr. Sahana Shetty, HOD of Endocrinology Dept., KMC, Manipal conducted the first guest lecture on 'The types of insulin and their different clinical uses'. It was a very interactive session; the attendants went home with lots to ponder. The following guest lecture was conducted on the 17th of August by Dr. Rajesh Nayak from St. John's University, New York, on the topic, 'Graduate education and pharmacy practice opportunities in the USA'. It was an important lecture for the senior students as he gave insight into clinical pharmacy job opportunities in America. In addition, he explained the skill set requirements for those looking for doctoral studies in the USA. Dr. Jayapala Reddy from Anthem Biosciences Pvt. Ltd., Bangalore, gave the following guest lecture on the topic, 'Future of biologicals: a global perspective' on the 3rd of September. It was a riveting lecture providing great insight into the use of biologicals to manage many conditions. Dr. Jimmy Jose from the University of Nizwa, Oman delivered the last guest lecture of the series on the topic 'Nocebo effect in medication safety' on the 14th of September.

On the occasion of World Pharmacist Day (September 25th September, 2022), PLC hosted a series of events- debate, quiz, poster and case presentation. The students participated in large numbers leading to a very entertaining and fulfilling evening. On 24th PLC conducted a panel discussion on the query, "How to improve medication use among the public" at MCOPS. The panellists comprised of highly skilled individuals from various sectors of pharmacy. The panel discussion was followed by PLC's first anniversary celebration with an exciting cake cutting ceremony. The next day PLC conducted a community outreach program in Arthradya village, Udupi. Dr. Manu Sudhi and Dr. Sachin V from the Department of Emergency Medicine, KMC, Manipal educated the villagers on basic first aid. PLC volunteers made skits and plays to educate and entertain the villagers. Overall, it was a very fulfilling event with massive participation from the community.

To raise awareness of having a healthy mind, and to commemorate World Mental Health Day on the 10th of October, 2022, we have decided to dedicate this issue of DigiDose to mental health. Hence, we have added articles on the effects of recreational and medical drugs on the human brain. Do not forget to check out the DigiPlay section.

As always, feel free to share your thoughts and opinions. Thank you.



# SPOTLIGHT PRESCRIBED ACCESS TO SUICIDE

AMULYA BHATKAL

When Katie Miller of New York filled out a new prescription allergy drug for her son Cody, she'd hoped it would alleviate some of his tedious allergy symptoms. The bereaved mother is left in ruins, wondering whether a possible side effect of the anti-allergy medications caused her happy child to take his own life a few months later.

Unfortunately, victims like Cody or Robin Williams—the beloved comedian—aren't alone. When it comes to casting blame on a multibillion-dollar pharmaceutical product, carefully skewed "law and order" has evolved more towards protecting such practitioners and manufacturers than those they claim to help. While considering the multitude of factors that could play a part in such mishaps, we often tend to forget that, ironically, the major defendants who could prevent suicide, i.e., psychiatrists and psychotropic drugs, could themselves be implicated in such cases.

In India, it has been predicted that due to the pandemic and its associated influences, the prevalence of people suffering from mental health disorders could touch 20% in the country. In this regard, it is no longer an infrequent event to watch a patient walk out of a psych clinic with prescription psychotropic drugs like antidepressants and BZD's. With serious understaffing of the mental health workforce and ever-increasing patients with psychiatric illnesses, the probability of prescribing errors or lack of treatment for those in dire need has also escalated.



Adding to this, it has been observed that most anti-depressants are prescribed by primary-care physicians who may have limited experience and training in treating mental health disorders. Increasing incidences of overprescribing patients with mild degrees of psychiatric disease on one hand and under prescribing patients with severe degrees of disease on the other hand have also been reported in practice. Multiple studies now confirm a positive correlation between the use of psychotropic drugs and suicidal ideation. In particular, rapid tapering off of BZDs without counselling has been observed to have a strong link to suicidal tendencies. Most of these drugs are released with an FDA-approved Black Box warning of suicidal thoughts — making us wonder if such "therapeutic solutions" to mental disorders are developing into health concerns themselves.

***If you are feeling suicidal or having suicidal thoughts, help is at hand. Please call any of the contacts enlisted in the following helpline website: <http://www.aasra.info/helpline.html>***

It's definitely a medical conundrum that has got regulatory officers, medical health professionals, and the public questioning the integrity of medicine. While some patients can take these drugs and have no risk of suicide, in others, the chemical factor of the drug may combine with an underlying disease and influence depressive thoughts and suicide ideation. Identifying patients at high risk of experiencing the ill-effects of such drugs is in the hands of medical professionals like us.

Firstly, and most importantly, correctly diagnosing the diseases is a necessary step in instituting effective medical therapy for the patient. Misdiagnosed patients suffer from both symptoms caused by untreated underlying diseases and side effects of ineffective prescribed drugs, resulting in tragic outcomes.

Secondly, in many cases, healing the mind without drugs and instituting psychosocial therapy strategies are equally efficacious. With lower incidences of side effects and relapses, therapy should have been a popular choice, but due to certain factors like the time required by the patient to integrate the coping mechanisms as second nature and financial stress, therapy is usually overlooked as a viable option. As a responsible medical health professional, it's our duty to rightfully inform patients about all the best possible treatment options with their pros and cons and follow-up with strict monitoring and modifications wherever applicable.

Above all, providing a touch of humanity in our medical services is the actual, dire need of the hour.

Although it may be difficult to understand an entity as complex as a brain, which in regard to the cognitive revolution has only progressed to become an intricate maze of mysteries, it is well within our capabilities to understand a human being as a whole. In light of World Suicide Prevention Month, let us remind ourselves of the roles we play in building a stronger and destigmatized community. Essentially, let's take the time to create hope for many.



*IDENTIFYING PATIENTS AT HIGH RISK OF EXPERIENCING THE ILL-EFFECTS OF SUCH DRUGS IS IN THE HANDS OF MEDICAL PROFESSIONALS LIKE US.*



Featured image- monticellllo (Adobe Stock)

# CESSATION CAN ONLY WORK WITH THE TRIAD APPROACH

*Remember to treat the person  
rather than the disease*

**SKANDA NARAYAN**

As pharmacists and health care providers, we often counsel patients to give up addictive habits like tobacco, alcohol and marijuana because of the physiological and anatomical harm or sometimes even physiological dependence. In medicine, we follow an unwritten dogma - if a drug can't treat underlying pathogenesis or the cause, the medication is just a lifelong treatment, not curative. The same holds with addiction; dependence is far more psychological, and the underlying cause has to be dealt with, even in cases where a person started using drugs at a social gathering just to have a good time.

Somewhere along the way, that one cigarette changed a tense situation into a more relaxed one similar to a chilled glass of beer after a strenuous day of work. This forms a feedback cycle slowly; even with the associated unpleasantness, a person starts craving the drug. The feedback loop becomes a vicious cycle as more significant unpleasant moments are dealt with the person's drug of choice. It doesn't matter in the end what the initial circumstance of using the drug was; dependence is deep-rooted into one's psychology and physiology.

Pharmacists and physicians need to be empathetic to the cessation process and take into account how the drug not only harmed one's life but about how much that drug is a load-bearing pillar in the architecture of one's mind.

Cessation becomes curative and not a lifelong war over urges, cravings, withdrawal, and relapse, only if we tackle it in 3 ways: starting with alcohol aversion, smoking cessation, and deaddiction methods by a physician and pharmacist. Secondly, administering psychotherapy by a qualified psychologist with experience in counselling people with substance abuse issues. This helps inculcate healthier coping mechanisms by dealing with the psychological cause of dependence. Finally, the person needs a group of sober people around them who have common grounds, like 'Alcoholics Anonymous' in the USA. This can encourage individuals to be sober and help one another when he or she has strong urges to relapse.

# OUTREACH PROGRAM

*Community Outreach Activity at Athrady Village, Udupi*

## ON THE OCCASION OF WORLD PHARMACISTS' DAY 2022,

Pharmacy Literacy Club (PLC), Centre for Public Health Pharmacy, Dept. of Pharmacy Practice, Manipal College of Pharmaceutical Sciences (MCOPS),

Manipal Academy of Higher Education, Manipal, India organized a community outreach activity at Ambedkar Sabha Bhavana, Athrady Village, Udupi on 25th September 2022 forenoon. More than 25 villagers participated in health education by PLC volunteers. In addition, Dr. Manu Sudhi and Dr. Sachin V from the Department of Emergency Medicine, Kasturba Medical College, Manipal explained about the first aid measures for snake bites, pesticide poisoning, epilepsy, stroke, etc.

Moreover, PLC student volunteers provided awareness on the benefits of refraining from alcohol and tobacco use, with skits and fun play, and distributed patient information leaflets among the community. The community program was a great success since all the villagers were actively involved. One of the villagers said, "I feel that such programs should be conducted on a regular basis and I am happy to attend". Dr. Sonal Sekhar M, Co-ordinator of Centre for Public Health Pharmacy, MCOPS coordinated the outreach program.

**THE EVENT WAS SPONSORED BY CANARA BANK, MANIPAL, AND MTTN WAS THE MEDIA PARTNER.**



# OUTREACH PROGRAM



Pharmacy Literacy Club,  
Centre for Public Health Pharmacy,  
Department of Pharmacy Practice, MCOPS  
is organizing

## COMMUNITY OUTREACH & AWARENESS

25TH SEPTEMBER 2022 | 10 AM TO 12:30 PM | ATHRADY VILLAGE

# PANEL DISCUSSION

ON ACCOUNT OF WORLD PHARMACISTS' DAY 2022



On the occasion of World Pharmacists' Day 2022, Pharmacy Literacy Club, Centre for Public Health Pharmacy, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, India organized a Panel Discussion on "How to Improve Medication Use among the Public" on 24th September 2022, forenoon at Prof. P Gundu Rao Conference Hall, MCOPS. The panellists comprised of various sectors of pharmacists such as a regulatory pharmacist, hospital pharmacist, community pharmacist, manufacturing pharmacist, academic pharmacist, and clinical pharmacist. Mr. Shankar Naik, Assistant Drug Controller, Udupi; Mr. Jose AJ and Laxmikanth Nayak, Chief Pharmacist, Kasturba Hospital Manipal;

Mr. Pradeep Kumar, Chief Pharmacist, Radha Medicals, Manipal; Dr. Mohammed Asif, Research Scientist, Kasturba Medical College; and Dr. Surulivel Rajan, Prof.& Head, Dept. of Pharmacy Practice, MCOPS, Manipal were the eminent panellists of the session. The panel members expressed their views on medication use problems among the public and how to tackle the same, antimicrobial resistance and antibiotic misuse, vaccine-related issues, and recent updates in essential drug lists, etc. Ms. Ananya Rudra, PharmD (Intern) was the moderator for the event. The panel discussion was followed by PLC's first Anniversary celebration with cutting of the cake by all the panellists.

Dr. C. Mallikarjuna Rao, Principal of MCOPS, delivered the World Pharmacists Day message to the staff and students. Mr. Lipin Lukose, President of PLC provided an overview of the last one year's plethora of activities carried out by PLC. Prize distributions were carried out to the winners of quiz, debate, e-poster and case presentation competitions conducted by PLC on 22nd and 23rd September 2022. Dr. Sonal Sekhar M, Coordinator of the Centre for Public Health Pharmacy, MCOPS delivered the vote of thanks. One of the participants said, "We really enjoyed attending the panel discussion and learnt a lot today, and we will not be bored even if it covers the entire day".



# HALL OF FAME

## ISPE'S SCHOLARSHIP FOR FACULTY AND STUDENTS TO ATTEND ICPE 2022 AT COPENHAGEN, DENMARK

Dr. Girish Thunga, Dr. Vijayanarayana K, and Dr. Rajesh V, Associate Professors of Department of Pharmacy Practice received International Society for Pharmacoepidemiology (ISPE)'s full scholarship and Dr. Subeesh Kulangara Viswam and Dr. Sreedharan, received partial scholarship to attend the International Conference on Pharmacoepidemiology (ICPE) 2022, August 24-28, 2022 at Copenhagen, Denmark. Mr. Lipin Lukose, Ms. Gursimran Kaur (Pharm D Interns), and Dr. Maya T, Pharm D; and Mr. Aditya MS, B.Pharm student also received full scholarship. Dr. Fathima Thashreefa Basheer, Pharm D; Mr. Muhammed Rashid P.P and Ms. Asha K Rajan, Ph.D. research scholars received partial scholarship. ISPE's full scholarship covers one-year membership of ISPE, travel expense and complimentary registration fees to attend the conference, whereas partial scholarship covers one-year membership of ISPE and complimentary registration fees to attend the conference.

## MR. MUHAMMED RASHID BECOMES LEAD-NETWORKING & COMMUNICATION IN ISPE STUDENT COUNCIL

Mr. Muhammed Rashid, Research Scholar (INSPIRE fellow), Department of Pharmacy Practice, has been selected as "Networking & Communication Lead for the year 2022-2023 by The International Society for Pharmacoepidemiology (ISPE) Student Council". He took this position with a mission to connect ISPE with other regional and international organizations and societies to enhance the current practice and education. Also, he is trying to harmonize the educational resources in all regions, especially in developing countries, through outstanding educational programs which ultimately lead to a better environment for academics and research. Moreover, he is also serving as a member of the Education Committee of ISPOR (Professional Society for Health Economics and Outcomes Research) Student Network.

## MANIPAL SCIENTISTS DEVELOP AN AI TOOL TO HELP DOCTORS DISTINGUISH BETWEEN INFECTIOUS DISEASES

For the first time, a team from Department of Pharmacy Practice, MCOPS; Kasturba Medical College (KMC), Manipal and Manipal Institute of Technology (MIT) has developed a new machine learning-based tool that could help doctors distinguish between different tropical diseases, including dengue and malaria. The tool used the multi-nominal regression analysis and a machine-learning algorithm for diagnosis of tropical infection, which was published in PLOS Neglected Tropical Diseases. The study is the first of its kind wherein both statistical and machine learning approaches were explored simultaneously for differentiating tropical infections. This project was done as part of postgraduate work under guidance of Dr Girish Thunga, Department of Pharmacy Practice MCOPS. This work was highlighted in reputed USA based website Interesting Engineering that publishes leading innovative research across the world (<https://interestingengineering.com/search>).



## WORKSHOP ON “3D'S OF BIOMEDICAL ETHICS: RESEARCH, PRACTICE, AND PUBLICATION”

A one-day workshop was organized by Pharmacy Literacy Club (PLC), Centre for Public Health Pharmacy, Department of Pharmacy Practice, MCOPS on 27th August 2022. The workshop was intended to promote good ethical practice and culture in biomedical research, clinical practice, and journal publication among faculty, research scholars, and students. A total of 4 sessions were handled by members of the Institutional Ethics Committee (IEC) of Kasturba Medical College and Kasturba Hospitals (KMC & KH) and experts from Mangalore. More than 30 delegates participated in the workshop. The delegates were graduate and post-graduate students, research scholars, and academicians from the pharmacy, medical, and other health professional programs.



## TYPES OF INSULIN AND ITS USE IN CLINICAL PRACTICE

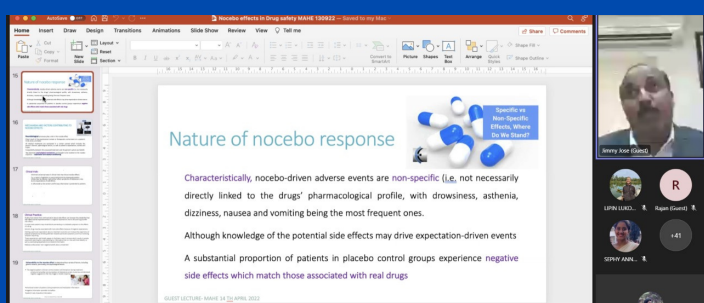
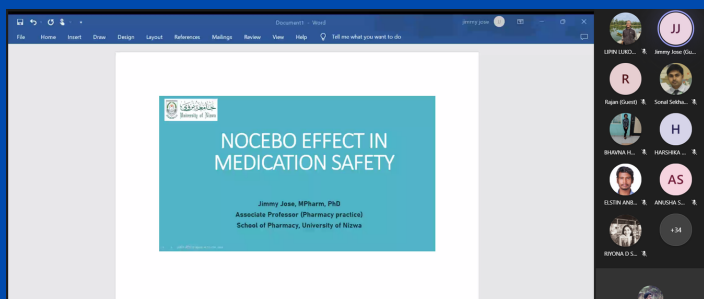
Dr. Sahana Shetty, Professor, and Head of Department of Endocrinology, Kasturba Hospital, Manipal delivered a guest talk on the 13th of August, 2022. In her talk, she gave insight into the clinical applications of insulin. In addition, she explained various types of insulin and its analogues. She also emphasized the importance of patient education by the clinical pharmacist on the correct use of insulin and its administration devices. The event was organized by the Pharmacy Literacy Club (PLC), Centre for Public Health Pharmacy, Dept. of Pharmacy Practice, MCOPS.





Dr. Rajesh Nayak, Associate Professor, Pharmacy Administration and Public Health College of Pharmacy and Health Sciences, St. John's University, New York, USA delivered a guest talk on "Graduate Education and Pharmacy Practice Opportunities in USA" on the 17th of August 2022. In his talk, he gave insight into clinical pharmacy job opportunities in America. In addition, he explained what kind of skill sets are required for those who are looking for doctoral studies in the USA. He also emphasized the importance of goal setting while aiming job abroad. The event was organized by the Pharmacy Literacy Club (PLC), Centre for Public Health Pharmacy, Dept. of Pharmacy Practice, MCOPS.

Dr. Jayapala Reddy, Head and Vice President- Biologicals Division, Anthem Biosciences Pvt. Ltd., Bangalore delivered a guest talk on "Future of biologicals: a global perspective" on the 3rd September 2022. In his talk, he gave insight into biologicals and their applications in various disease management. He also shared his vast experience in working with various multinational pharma companies. In addition, he explained what kind of traits are in demand for fresh graduates looking for job opportunities in the pharma industry. The event was organized by the Pharmacy Literacy Club (PLC), Centre for Public Health Pharmacy, Dept. of Pharmacy Practice, MCOPS.



Dr. Jimmy Jose, Associate Professor (Clinical Pharmacy), College Consultancy and Collaborative Activities Officer, School of Pharmacy, University of Nizwa, Nizwa, Sultanate of Oman delivered a webinar on "Nocebo effect in medication safety" on 14th September 2022, through Microsoft Teams platform. He is an alumnus of MCOPS. In his talk, he gave insight into the concept of the nocebo effect. In addition, he explained the importance of understanding nocebo effects in pharmacovigilance. He also shared his vast experience in clinical pharmacy education.

# PUBLICATIONS

## JULY TO SEPTEMBER

- Atsunori Kaibara , Ao Peng , Rujia Xie , Yunn-Fang Ho , Chun-Jung Lin , Lai-San Tham , Surulivelrajan Mallayasamy, Korbtham Sathirakul , Yoke-Lin Lo , Manh Hung Tran , Van Toi Pham, Akhmad Kharis Nugroho, Khin Myo Oo , Bimal Kunwar, Uthpali Mannapperuma , Kimheang Ya , Muhammad Usman, Long Chiau Ming, Kyungsoo Park. The Asian Pharmacometrics Network: The historical background, establishment, objectives and roles, and recent activities. *CPT Pharmacometrics & Systems Pharmacology*. 2022;11(4):403-408. (Q1; IF: 4.339)
- Hindu Kalluru, Surulivel Rajan Mallayasamy, Satish Srinivas Kondaveeti, Vinodhini Chandrasekhar, Mangathayaru Kalachaveedu. Effect of turmeric supplementation on the pharmacokinetics of paclitaxel in breast cancer patients: A study with population pharmacokinetics approach. *Phytotherapy Research*. 2022; 36(4):1761-1769. (Q1; IF: 6.388 )
- Levin Thomas, Arun Prasath Raju, Chaithra, Sonal Sekhar M, Muralidhar Varma, Kavitha Saravu, Mithu Banerjee, Chidananda Sanju SV, Surulivelrajan Mallayasamy, Mahadev Rao. Influence of N-acetyltransferase 2 (NAT2) genotype/single nucleotide polymorphisms on clearance of isoniazid in tuberculosis patients: a systematic review of population pharmacokinetic models. *European Journal of Clinical Pharmacology*. 2022;78(10):1535-1553. (Q2; IF: 3.064)
- Muhammed Rashid, Manasvini Ramakrishnan, Viji Pulikkel Chandran, Siddeshappa Nandish, Sreedharan Nair , Vishal Shanbhag, Girish Thunga. Artificial intelligence in acute respiratory distress syndrome: A systematic review. *Artificial Intelligence in Medicine*. 2022 ;131:102361. (Q1; IF: 7.011)
- Puspita Sahu , Meenakshi Srinivasan, Girish Thunga, Leslie Edward Lewis , Vijayanarayana Kunhikatta. Identification of potential risk factors for the poor prognosis of neonatal sepsis. *Medicine and Pharmacy Reports*. 2022. 95(3):282-289. (Q2)
- Irene Lalhruaimawii, Muralidhar Varma Danturulu, Shweta Rai, U.K. Chandrashekar, Rajesh Radhakrishnan. Determinants of stigma faced by people living with Human Immunodeficiency Virus: A narrative review from past and present scenario in India. *Clinical Epidemiology and Global Health*. 2022; 17:101117. (Q2)
- Sonal Sekhar Miraj, Navya Vyas, Shilia Jacob Kurian, Tejaswini Baral, Levin Thomas, B Shrikar Reddy, Murali Munisamy, Mithu Banerjee, Mahadev Rao. Vitamin D receptor gene polymorphism and vitamin D supplementation on clinical/ treatment outcome in tuberculosis: current and future perspectives. *Expert Review of Anti-infective Therapy*. 2022; 20(9):1179-1186. (Q1; IF:5.854)
- Freya Felicia D'sa, Elaine Zourra Fernandes, Srushti Vaibhav Kesarkar, Lavanya Swaminathan, Vijayanarayana Kunhikatta M, Muhammed, Girish Thunga M, Viji Pulikkel Chandran, Sreedharan Nair. Use of histamine-2 receptor antagonists and risk of inflammatory bowel diseases: A systematic review and meta-analysis of observational studies. *Journal of Clinical Pharmacy and Therapeutics*. 2022; 47:1103-1111. (Q2; IF: 2.145)
- Saikumar Matcha, Elstin Anbu Raj, Ramya Mahadevan, Arun Prasath Raju, V Rajesh, Leslie Edward Lewis and Surulivelrajan Mallayasamy. Pharmacometric approach to assist dosage regimen design in neonates undergoing therapeutic hypothermia. *Pediatric Research*. 2022; 92: 249-254. (Q1; IF: 3.953)
- Muhammed Rashid, Asha K Rajan, Manik Chhabra, Ananth Kashyap, Viji Pulikkel Chandran, Rajesh Venkataraman, Sreedharan Nair, Girish Thunga. Role of human leukocyte antigen in anti-epileptic drugs-induced Stevens-Johnson Syndrome/toxic epidermal necrolysis: A meta-analysis. *Seizure*. 2022; 102: 36-50.



### **Dr. Nivya Kolli, PharmD, Ph.D.**

**Pharm D Batch: 2008-2014**

**Drug Safety / Clinical Operations/Pharmacovigilance**

**Michigan, USA**

[nivyakolli2017@gmail.com](mailto:nivyakolli2017@gmail.com)

<https://www.linkedin.com/in/nivyakolli>

Dr. Nivya Kolli is one of the students in the first batch of PharmD (2008-2014) in India. She has graduated from Manipal University in 2014. She received her Master of Sciences and Doctor of Philosophy from Central Michigan University and continued her quest for research at Moffitt Cancer Center as a Post-doctoral fellow. Her most recent job held is in the approval process of Moderna COVID-19 vaccine. Dr. Kolli believes that her interest in Neurosciences, as well as the flexibility of Manipal's Pharm D program, facilitated her in acquiring multiple skills on diverse topics such as statistics, pharmacology, pharmacotherapy, and research methodology, which laid a strong foundation for her scientific research.

Dr. Kolli's research interests include Pharmacology, Pharmacotherapeutics, Pharmacovigilance, Huntington's Disease, Alzheimer's Disease, Stroke, Pediatrics, Medical Devices, CRISPR-Cas9 Technique, Cell therapy, Gene-therapy, Oncology, and Clinical Liaison. Dr. Kolli has proven to be an excellent graduate student by leading several exciting research projects at Central Michigan University and Saginaw Valley State University laboratories, especially the gene therapy project in Huntington's disease (HD). She developed cutting edge gene-editing technology "the CRISPR-Cas9 system" to edit mutated Huntingtin proteins in HD. Design and developing CRISPR-Cas9 constructs, viral vectors which carry important gene for gene-editing and neuronal reprogramming, as well as manipulating them to the cellular machineries to obtain their desired effects is not an easy task, and Dr. Kolli became quite successful in this challenging task. Subsequent to developing this innovative technology, Dr. Kolli has probed deeper into ways in which this technology can be applied in clinical settings to reduce mitochondrial dysfunction that occurs in Huntington's disease.

# *Alumni Column*

This reflects her superb experimental skills, as well as her excellency on molecular biology. Dr. Kolli was selected to participate in the "64th Lindau Nobel Laureate Meeting", held in Germany by the Department of Science & Technology, Government of India, one of the pioneer research and development organization in India. In addition, Dr. Kolli delivered multiple invited talks at the hospital of St. Mary's of Michigan at Saginaw and presented more than 30 research articles as at different Symposia, both national and international conferences. Dr. Kolli received a prestigious Neuroscience fellowship from St. Mary's hospital.

*I am a proud graduate of Manipal University, which strives to foster an engaged and passionate community while balancing academic excellence and diversity. The pharmacy department has provided me with a wonderful environment and the opportunity to learn and grow academically while gaining lifetime experience.*

She is also a recipient of 'Graduate Creative Research Endeavours Grant' from Central Michigan University and Travel Award to present her research work on international conferences, such as Society for Neuroscience 2016 & 2017, nano symposium "Big Question in Neuroscience" (San Diego 2016). She was also a recipient of travel award from The American Society for Neural therapy and Repair to deliver oral presentation at 15th International Neural Transplantation and Repair, 2018. She was an invited speaker to present her work at 18th Biotechnology Congress at New York in 2017. Dr. Kolli is one of the few students selected from India to participate in student exchange program through International Pharmaceutical Student Federation in her second year of PharmD program. She has obtained a hands-on training in various research and development projects at University of Kent. She also held a Research assistantship position for 'Dr. TMA Pai endowment chair project' in her final year of PharmD. Dr. Kolli has excellent academic achievements and is highly respected, uniquely qualified, and exceptional researcher who already has substantial contribution to the neurodegenerative research community. Dr. Kolli believes in Thomas Huxley's quote "Try to learn something about everything and everything about something" and she is determined to continue her research in finding effective cures for different neurological disorders, such as Huntington's disease that benefits neuroscience community.

# CAREER FRONT

Editorial Reviewer - Clinical Psychiatry,  
Cactus Communications, Bengaluru,  
Karnataka, India

CACTUS

Medical Editor - Associate EVERSANA,  
India



Assistant Professor - Chitkara College of  
Pharmacy,  
Chitkara University, Chandigarh, India



 Pharmacovigilance Programme of India (PvPI)  
National Coordination Centre,  
Indian Pharmacopoeia Commission, Ghaziabad



The Department of Pharmacy Practice,  
Manipal College of Pharmaceutical  
Sciences is an ADR Monitoring Centre  
(AMC) under Pharmacovigilance  
Programme of India (PvPI), Indian  
Pharmacopoeia Commission - National  
Coordination Centre (NCC), under  
Ministry of Health & Family Welfare  
(MoHFW), Government of India.

## CONTACT DETAILS

Department of Pharmacy Practice,  
4th Floor MCODES, via New OPD  
block, Kasturba Hospital, Manipal,  
Karnataka, India- 576104

☎ 0820-2922403

✉ [clinpharm@manipal.edu](mailto:clinpharm@manipal.edu)

# UPCOMING EVENTS

- Antibiotiko' 2022 - World Antimicrobial Awareness Week Program  
18-24 November 2022  
Manipal, India
- 8th International Conference on Clinical Pharmacy (CPCON 2023)  
05-07 January 2023  
Manipal, India
- International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2023  
7-10 May 2023  
Boston, USA
- 39th International Conference on Pharmacoepidemiology (ICPE)  
23-27 August 2023  
Nova Scotia, Canada
- International Society of Pharmacovigilance (ISoP) 2023 Annual Meeting  
06-09 September 2023  
Bali, Indonesia



**MANIPAL COLLEGE  
OF PHARMACEUTICAL SCIENCES**  
MANIPAL  
*(A Constituent unit of MAHE, Manipal)*



## 8TH INTERNATIONAL CONFERENCE ON CLINICAL PHARMACY CPCON 2023

**05-07 January 2023**

*"Redefining Pharmaceutical Care  
in the Era of Digital Health"*

### HIGHLIGHTS

- Academic and research conclave
- Educational symposium
- Research presentation
- Students initiated research projects
- Research collaboration
- Pre-conference workshop
- Professional networking
- And many more....

### SAVE THE DATES

Abstract Submission deadline:	30 Nov 2022
Abstract Acceptance notification:	05 Dec 2022
Scholarship application deadline:	15 Nov 2022
Scholarship announcement:	20 Nov 2022
Registration deadline:	15 Dec 2022

*Organized by*

**Centre for Pharmaceutical Care**

*In Association with*

**Department of Pharmacy Practice**

Manipal College of Pharmaceutical Sciences  
Manipal Academy of Higher Education  
Manipal, Karnataka, India

# DigiPlay



T W F A K C X N V G Z P N U Y J N C Y N  
 E R T X I R O I J R T E J U Q K O O R C  
 K C A S M N W M S A U O D L C K I G T N  
 F K N U V L A T P R Y P A R E H T N A E  
 U A R A M H F M O U B S E T L M A I I I  
 O H O R L A D T O C L Y L V H U N T H L  
 Y N N V X A Y A F T S S T D S N R I C H  
 O T G L C P B D V P P Z I O W V E O Y O  
 V J T H I E B C A T R E U V V C T N S H  
 A C A C Q D C E E A O Z L B E Y S F P M  
 V U A W U B F L T I S H A K O C N Q O Y  
 L L Q M A R P O L A T I C S E V O J T E  
 R Z V M W T M R P O P S E Q Q K C I R L  
 P E R S O N A F T F K T Z C Y H T A A K  
 E H H L A N X I E T Y R A G W N F N L X  
 I H C M P J Y A N V A I Q E E L Y Y G P  
 K K Y E P R L E N K I O Y D E N Z F S H  
 M Z Q O R H U H M G O N I W O C F V W G  
 L V Y O Z Z G A N R D I B W N E J U S M  
 C H N S Q W B M S F H C J B P O X Z C F

ANXIETY

THERAPY

PERSONA

KLEPTOMANIA

COMPULSIVE

BALANCE

TRAUMA

PSYCHIATRY

HISTRIONIC

CONSTERNATION

COGNITION

WELFARE

NEUROTYPICAL

IDENTITY

ESCITALOPRAM