



INNOVATIVE COLLEGE OF PHARMACY

(Affiliated to Dr. APJAKTU, BTEUP - Lucknow
and Approved by PCI, New Delhi)

Faculty Development Program

NEW INNOVATIONS IN CLINICAL PHARMACY

ELIGIBILITY:

All Pharmacy Faculty Members

DURATION :

9th August 2019 To 14th August 2019



Principal:
Dr. Hari Om Sharma
Pharmacy

Coordinator:
Dr. Titiksha Sharma
Academic Director

Plot No.-6, Knowledge Park-2, Greater Noida, U.P.
844 844 8851, 8800200052 | www.innovativepharmacy.in



INNOVATIVE COLLEGE OF PHARMACY

Affiliated To Dr. A.P.J. Abdul Kalam Technical University, Lucknow, U.P. & Approved By PC

Date: 4 August 2019

Circular

All the faculty members are hereby informed that the institute has scheduled seven days FDP on "New Innovations in Clinical Pharmacy" from 9th August 2019 to 14th August 2019.

The brief date wise Itinerary of the event is as under:

Day	Date	Time	Topic	Resource Person
1	09/08/2019	12PM-1PM 1PM- 3 PM	Inauguration New Innovations in Clinical Pharmacy	Dr. Divya Vohra
2	10/08/2019	2 PM to 3:30 PM	Role of Clinical Pharmacist in Management of Chronic Diseases.	Dr. M. S. Vyas
3	11/08/2019	2 PM to 3:30 PM	Prevention of ADRs in Poly Pharmacy patients	Dr. Sunil Thakur
4	12/08/2019	2 PM to 3:30 PM	Education regarding Balanced diet in Prevention of Obesity and Diabetes.	Dr. Sumesh Kumar
5	13/08/2019	2 PM to 3:30 PM	Pharmacogenomics	Dr, Nayyar Parvez
6	14/08/2019	2 PM to 3:30 PM	Digital Health and Telepharmacy	Dr. Anurag khatkar

All the faculty members are requested to attend the sessions. The faculty members having their scheduled lectures during the time of the FDP may attend the session after their lectures.

On the completion of the event, the proper certificate shall be conferred to the participants who have attended all the sessions. It is further to be noted that every day there will be short multiple-question tests to ascertain what you have understood during the session.





INNOVATIVE COLLEGE OF PHARMACY

Affiliated To Dr. A.P.J. Abdul Kalam Technical University, Lucknow, U.P. & Approved By PCI

All are requested to comply with the instructions.

**Copy to:-
Chairman
All Department Heads
IQAC**



Plot No. - 6, Knowledge Park - 2, Greater Noida, U. P. - 201308. (Near Knowledge Park - 2 Metro Station)
Ph: 0120-2328555 | Website - www.innovativepharmacy.in | E-mail: innovativepharmacy1@gmail.com





**Report on Faculty Development Program
Organized by
INNOVATIVE COLLEGE OF PHARMACY
on
New Innovations in Clinical Pharmacy
(Period- 9th August 2019 to 14th August 2019)**

INTRODUCTION

Clinical pharmacy has experienced significant advancements in recent years, driven by the integration of cutting-edge technologies and novel practices aimed at improving patient care and optimizing therapeutic outcomes. These innovations are reshaping the landscape of healthcare, enabling pharmacists to play a more proactive and integral role in patient management.

The six-day Faculty Development Program (FDP) on New Innovations in Clinical Pharmacy. Pharmaceutical education encompasses the training and preparation of students in various disciplines related to drug discovery, development, manufacturing, regulation, and distribution

PURPOSE

The purpose of new innovations in clinical pharmacy is multifaceted, aiming to enhance the overall quality of healthcare by improving the efficacy, safety, and





accessibility of pharmaceutical care. These advancements are designed to address the evolving needs of patients, healthcare providers, and the healthcare system as a whole.

PROGRAM OVERVIEW

The Program on New Innovations in Clinical Pharmacy aims to educate and equip pharmacists with the latest technological advancements and methodologies to improve patient care, medication safety, and therapeutic outcomes. This program encompasses a broad range of innovations, including personalized medicine, digital health technologies, artificial intelligence, and more. Here is an overview of the key components and goals of the program.





INNOVATIVE COLLEGE OF PHARMACY

Affiliated To Dr. A.P.J. Abdul Kalam Technical University, Lucknow, U.P. & Approved By PCI

The day-wise FDP program is as under :

Day	Date	Time	Topic	Resource Person
1	09/08/2019	12PM-1PM 1PM- 3 PM	Inauguration New Innovations in Clinical Pharmacy	Dr. Divya Vohra
2	10/08/2019	2 PM to 3:30 PM	Role of Clinical Pharmacist in Management of Chronic Diseases.	Dr. M. S. Vyas
3	11/08/2019	2 PM to 3:30 PM	Prevention of ADRs in Poly Pharmacy patients	Dr. Sunil Thakur
4	12/08/2019	2 PM to 3:30 PM	Education regarding Balanced diet in Prevention of Obesity and Diabetes.	Dr. Sumesh Kumar
5	13/08/2019	2 PM to 3:30 PM	Pharmacogenomics	Dr, Nayyar Parvez
6	14/08/2019	2 PM to 3:30 PM	Digital Health and Telepharmacy	Dr. Anurag khatkar





DAY-WISE REPORT

A six-day Faculty Development Programme was organized in the institute from 9th August 2019 to 14th August 2019.

The day-wise report in the brief is being encapsulated for the reference of all concerned.



Session Topic: Prevention of Communicable Diseases

Timing: 12 PM to 3 PM

Resource Person: Dr. Divya Vohra

The first day of the Programme commenced with the **formal welcome** of the Resource Person **Dr. Divya Vohra** and all participants by Principal **Dr. Hariom Sharma**.

Dr. Divya Vohra, Preventing communicable diseases involves a combination of personal, community, and public health measures. On a personal level, vaccination is highly effective, protecting against diseases such as influenza, measles, and hepatitis B. Good hygiene practices, including regular hand washing and proper cough etiquette, play a crucial role. Safe food handling, access to clean drinking water, and the use of personal protective equipment (PPE) like masks and gloves are essential, particularly in healthcare settings or during outbreaks.





Moreover, Dr. Divya Vohra discussed Community measures include public education campaigns to raise awareness about disease prevention, proper sanitation and waste management, and vector control to reduce the breeding sites of disease-carrying insects. Isolation and quarantine of infected or exposed individuals help prevent the spread of contagious diseases.

Public health measures involve disease surveillance and monitoring to detect and respond to outbreaks promptly, strengthening healthcare infrastructure, and enforcing health regulations and policies.



Session Topic: Role of Clinical Pharmacist in Management of Chronic Diseases

Timing: 2 PM to 3:30 PM

Resource Person: Dr. M. S. Vyas

Dr. M. S. Vyas, Clinical pharmacists play a crucial role in managing chronic diseases by leveraging their expertise in medication therapy management to optimize patient outcomes. They conduct comprehensive medication reviews to ensure that treatments are appropriate, effective, and safe, addressing issues such as drug interactions and side effects.

Patient education is a key component of their role, as they inform patients about their conditions, the importance of adherence, and proper medication usage, while also suggesting lifestyle modifications. Working in collaboration with other healthcare providers, clinical pharmacists help develop and implement





individualized care plans, making evidence-based recommendations for medication adjustments.

Furthermore, Dr. M. S. Vyas delved They continuously monitor patients' responses to therapy through follow-ups and clinical assessments, allowing for timely interventions if complications arise. Additionally, clinical pharmacists optimize medication regimens to reduce polypharmacy and improve adherence through strategies like simplifying dosing schedules and providing motivational support..

Throughout the session, Dr. M. S. Vyas engaged participants in interactive discussions and provided practical examples to illustrate key concepts.

In conclusion, Dr. M. S. Vyas Sharma's session on contribute to preventive care by recommending vaccinations and screenings, and may develop disease-specific management programs for conditions like diabetes and hypertension. Staying updated with the latest research, they ensure their practices are based on current evidence, and their efforts ultimately lead to better health outcomes, reduced hospital readmissions, and healthcare cost savings.





Day 3
11/08/2019

Session Topic Prevention of ADRs in Poly Pharmacy patients

Timing: 2 PM to 3:30 PM

Resource Person: Dr. Sunil Thakur

In this enlightening session, Dr. Sunil Thakur, Preventing adverse drug reactions (ADRs) in patients with polypharmacy is a critical aspect of healthcare management that requires a comprehensive and proactive approach. Clinical pharmacists and healthcare providers play pivotal roles in ensuring the safety and efficacy of medication regimens for these patients.

The session commenced with conducting regular medication reviews is essential to assess the necessity and appropriateness of each medication. This includes evaluating potential drug interactions, duplications in therapy, and considering the patient's overall health status and treatment goals. Rationalizing the medication regimen involves prioritizing essential medications while minimizing unnecessary or potentially harmful drugs.

Dr. Sunil Thakur then delved into Patient education is another cornerstone of prevention. It involves providing clear and understandable information to patients about their medications, including potential side effects, proper usage, and the importance of adherence. Empowering patients to recognize and report any adverse effects promptly can help mitigate risks associated with polypharmacy.





Furthermore, Dr. Sunil Thakur discussed the Close monitoring and follow-up are crucial for detecting and managing ADRs early. Healthcare providers should schedule regular appointments to monitor the patient's response to therapy, assess for any emerging side effects or complications, and adjust medications as needed.

Throughout the session, Dr. Sunil Thakur engaged participants Utilizing technology, such as electronic health records and decision support tools, can enhance medication management by providing alerts for drug interactions and supporting evidence-based prescribing decisions.



Session Topic: Education regarding Balanced diet in Prevention of Obesity and Diabetes

Timing: 2 PM to 3:30 PM.

Resource Person: Dr. Sumesh Kumar

In this informative session, Dr. Sumesh Kumar, Education on maintaining a balanced diet plays a pivotal role in the prevention of obesity and type 2 diabetes. By imparting knowledge about nutrition, individuals can make informed choices that support healthy weight management and reduce their risk of developing diabetes.

The session commenced with understanding the composition of a balanced diet, which includes appropriate portions of carbohydrates, proteins, and fats, helps individuals optimize their nutrient intake without excess calories.

Dr. Sumesh Kumar then delved into Additionally, Emphasizing whole grains,





vegetables, and lean proteins over processed foods and sugars encourages stable blood sugar levels and supports weight control. Portion control education teaches individuals to manage their calorie intake effectively, promoting satiety while preventing overeating.

Furthermore, Prof. Jain shared valuable tips and techniques for making graduates well-equipped to tackle future challenges in the pharmaceutical industry.

In conclusion, Dr. Sumesh Kumar session on integrating these educational components into lifestyle practices and encouraging regular physical activity, individuals can adopt sustainable habits that contribute to overall health and reduce the incidence of obesity and type 2 diabetes.



Session Topic: Pharmacogenomics

Timing: 2 PM to 3:30 PM

Resource Person: Dr, Nayyar Parvez

In this engaging session, Dr, Nayyar Parvez, Pharmacogenomics, an emerging field at the intersection of genetics and pharmacology, focuses on understanding how an individual's genetic makeup influences their response to medications.

The session commenced with an overview of the studying genetic variations that impact drug metabolism, transport, and target interactions, pharmacogenomics





aims to personalize medical treatments and optimize therapeutic outcomes. This approach holds great promise in improving patient care by predicting how individuals will respond to specific drugs based on their genetic profiles.

Throughout the discussion, Dr, Nayyar Parvez facilitated conversations on a instance, genetic testing can identify patients who may be at higher risk of adverse drug reactions or who may require tailored dosages to achieve effective treatment. Implementing pharmacogenomics into clinical practice has the potential to enhance medication safety, efficacy, and patient adherence, thereby reducing healthcare costs associated with ineffective treatments and adverse events.

Furthermore, Dr, Nayyar Parvez provided guidance on mentoring relationships can offer guidance and support, helping individuals navigate their career paths.

Overall, the research discussion session led by Dr, Nayyar Parvez served as Challenges such as standardizing testing protocols, interpreting genetic data, and integrating these practices into routine clinical care remain, but ongoing research and technological advancements continue to expand the utility and accessibility of pharmacogenomics.

In conclusion, Dr, Nayyar Parvez the As precision medicine evolves, pharmacogenomics stands at the forefront, offering a personalized approach to healthcare that holds promise for revolutionizing treatment strategies and improving overall patient outcomes.





Day 6
14/08/2019

Session Topic: Digital Health and Telepharmacy

Timing: 2 PM to 3:30 PM

Resource Person: Dr. Anurag khatkar

In this enlightening session, Dr. Anurag khatkar, our esteemed resource person, delved into the Digital health and telepharmacy are rapidly evolving areas in healthcare that leverage technology to enhance patient care, improve access to medical services, and streamline medication management.

The session commenced with an overview of the Digital health encompasses a broad spectrum of technologies and platforms that facilitate healthcare delivery and management through digital means. This includes electronic health records (EHRs), telemedicine, mobile health apps, wearable devices, and remote monitoring tools. These technologies enable healthcare providers to remotely diagnose, monitor, and treat patients, bridging geographical barriers and improving healthcare accessibility, especially in underserved or remote areas.

Dr. Anurag khatkar Telepharmacy specifically refers to the delivery of pharmacy services remotely, often through telecommunications technology. Pharmacists can provide medication counseling, therapy management, and medication adherence support via phone calls, video conferencing, or secure messaging platforms.

Furthermore, Dr. Anurag khatkar Telepharmacy also includes services like medication therapy management (MTM), medication reviews, and patient education, all conducted remotely to enhance convenience and patient engagement.





INNOVATIVE COLLEGE OF PHARMACY

Affiliated To Dr. A.P.J. Abdul Kalam Technical University, Lucknow, U.P. & Approved By PCI

Throughout the session, Dr. Anurag khatkar engaged participants in The integration of digital health and telepharmacy offers several benefits. Firstly, it improves medication adherence by enabling pharmacists to monitor patients remotely and provide timely interventions. Patients can receive personalized medication management advice without the need for in-person visits, which can be particularly beneficial for those with chronic conditions or mobility issues. Digital health platforms also facilitate seamless communication between healthcare providers, enhancing care coordination and reducing medication errors.

In conclusion, Dr. Anurag khatkar session on digital health and telepharmacy contribute to cost-effectiveness by optimizing pharmacy workflows and reducing healthcare resource utilization. Patients can access pharmacy services from the comfort of their homes, reducing travel time and associated expenses. Additionally, these technologies support continuity of care by maintaining comprehensive electronic records that are accessible to healthcare providers across different settings.





INNOVATIVE COLLEGE OF PHARMACY

Affiliated To Dr. A.P.J. Abdul Kalam Technical University, Lucknow, U.P. & Approved By PC

ATTENDANCE LIST OF THE PARTICIPANTS

S.No.	Name of the Faculty	Signature
1	Dr. Hariom Sharma	
2	Dr. Amarjeet Singh	
3	Ms. Chanda ray	
4	Ms. Archita Katrolia	
5	Ms. Jaya Bhati	
6	Ms. Khushboo Gupta	
7	Mr. Mohd. Almas Khan	
8	Ms. Monika Setia	
9	Mr. Neeraj Kumar	
10	Ms. Preeti Anand	
11	Ms. Nida Hafiz	
12	Km. Priyanka Bhati	
13	Ms. Rama Tyagi	
14	Ms. Roopa Arya	
15	Ms. Roshan Zehra	
16	Ms. Sangeeta Singh	
17	Ms. Sarika Nigam	
18	Ms. Sarita Kamboj	
19	Ms. Sanchita Ghosh	
20	Ms. Shaivi Parashar	
21	Ms. Shilpi Sharma	
22	Mr. Shiv Kumar Sharma	
23	Ms. Suman Lata Rawat	
24	Ms. Tabassum Malik	
25	Mr. Vikas Sharma	
26	Mr. Bijender	





**Faculty Development Program
Organized by
INNOVATIVE COLLEGE OF PHARMACY
on
New Innovations in Clinical Pharmacy
(Period-9th August 2019 to 14th August 2019)**

FEEDBACK FORM

Thank you for participating in our Faculty Development Program (FDP) on **New Innovations in Clinical Pharmacy**. Your feedback is invaluable to us as we strive to continuously improve our programs. Please take a moment to share your thoughts by completing the following feedback form:

Personal Information:

1. **Name:**

2. **Email:**

3. **Position/Title:**

4. **Organization:**





Session Feedback:

1. **Overall, how would you rate the event?**
 - Excellent
 - Good
 - Fair
 - Poor
2. **How informative did you find the session on new innovations in clinical pharmacy?**
 - Very Informative
 - Informative
 - Neutral
 - Not Very Informative
 - Not Informative At All
3. **How relevant was the content to your practice or area of interest?**
 - Highly Relevant
 - Relevant
 - Somewhat Relevant
 - Not Relevant
4. **How well-organized was the event?**
 - Very Well-Organized
 - Well-Organized
 - Neutral
 - Poorly Organized
 - Very Poorly Organized

Speaker/Presentation Feedback:

1. **How would you rate the quality of the presentations?**
 - Excellent
 - Good
 - Fair
 - Poor





2. How clear and engaging were the speakers?

- Very Clear and Engaging
- Clear and Engaging
- Neutral
- Not Clear and Engaging
- Not Clear and Unengaging

3. Which speaker or presentation did you find the most useful or impactful?

Thank you for taking the time to provide your feedback. Your input will help us enhance future iterations of the FDP and better meet the needs of our teaching staff.

Sincerely,

[INNOVATIVE COLLEGE OF PHARMACY]





Test Questions for all Day Sessions

Result Analysis : 90% of participants felt that the session was excellent and/or 10%. It was a very good session.

Day 1 : Prevention of Communicable Diseases

Question 1 : Is handwashing effective in preventing the spread of communicable diseases?

- Yes
- No

Question 2 : Can vaccinations help prevent certain communicable diseases?

- Yes
- No

Day 2 : Role of Clinical Pharmacist in Management of Chronic Diseases

Question 1 : Do clinical pharmacists play a role in managing medication therapy for chronic disease patients?

- Yes
- No

Question 2 : Can clinical pharmacists help in identifying potential drug interactions in patients with chronic diseases?





- Yes
- No

Day 3 : Prevention of ADRs in Poly Pharmacy patients

Question 1 : Is medication reconciliation important in preventing ADRs in polypharmacy patients?

- Yes
- No

Question 2 : Can regular monitoring of drug levels help prevent ADRs in polypharmacy patients?

- Yes
- No

Day 4 : Education regarding Balanced diet in Prevention of Obesity and Diabetes

Question 1 : Is educating patients about the benefits of a balanced diet important in preventing obesity?

- Yes
- No

Question 2 : Can a balanced diet help in managing blood sugar levels to prevent diabetes?

- Yes
- No

Day 5 : Pharmacogenomics





Question 1 : Is pharmacogenomics the study of how genes affect a person's response to drugs?

- Yes
- No

Question 2 : Can pharmacogenomics help in predicting adverse drug reactions?

- Yes
- No

Day 6 : Digital Health and Telepharmacy

Question 1 : Is digital health technology transforming the way healthcare services are delivered?

- Yes
- No

Question 2 : Can telepharmacy services provide remote medication management and counseling?

- Yes
- No

