

SCHOOL OF PHARMACY

REPORT ON

GUEST LECTURE

On 1st February 2025, the School of Pharmacy, Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG), hosted a highly enlightening and academically enriching guest lecture on the topic "Drug Discovery and Development: The Role of DMPK and Clinical Pharmacology." The lecture was delivered by Dr. Srinivas R. Chennamaneni, an esteemed Clinical Pharmacologist and expert in Drug Metabolism and Pharmacokinetics (DMPK), currently based in Washington, DC, USA.

The session aimed to provide students and faculty with a deeper understanding of the complexities and critical components involved in modern drug development, particularly focusing on DMPK (Drug Metabolism and Pharmacokinetics) and Clinical Pharmacology, two essential pillars in ensuring the safety and efficacy of new therapeutic agents.

Dr. Chennamaneni began the session by discussing the drug discovery pipeline, emphasizing the importance of identifying lead compounds and optimizing their properties through preclinical research. He then elaborated on the pharmacokinetic (PK) and pharmacodynamic (PD) principles that govern drug behavior in the human body, explaining their implications on dosage, administration routes, and therapeutic outcomes.

A significant part of the lecture focused on the regulatory landscape of drug development, including guidelines from global agencies such as the FDA (Food and Drug Administration) and EMA (European Medicines Agency). Dr. Chennamaneni provided real-world examples and case studies from his professional experience in the pharmaceutical industry to illustrate how clinical trials are designed and how DMPK data contributes to making critical decisions in drug progression through Phase I to Phase IV clinical studies.

The lecture also highlighted the challenges faced in early-phase development, such as drug-drug interactions, bioavailability issues, and adverse event prediction, offering students a realistic view of what it takes to bring a new drug to market.

The interactive nature of the session encouraged students to ask questions and engage in discussion, making the event both informative and stimulating. Faculty members appreciated the contemporary relevance of the lecture, which aligned well with the curriculum and added industry-level depth to academic learning.

The event was coordinated by the faculty of the School of Pharmacy, with enthusiastic participation from B.Pharmacy students across all years. The session concluded with a vote of thanks expressing gratitude to Dr. Srinivas R. Chennamaneni for sharing his expertise and contributing to the academic enrichment of the institution.

Overall, the guest lecture was a resounding success, offering students and faculty valuable insights into the multidisciplinary nature of drug development and the critical role of clinical pharmacology and DMPK in shaping the future of healthcare.



NALLA NARASIMHA REDDY
Education Society's Group of Institutions - Integrated Campus
(UGC AUTONOMOUS INSTITUTION)

GUEST LECTURE
BY
Dr. Srinivas R. Chennamaneni
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Clinical Pharmacologist,
PK/PD/ADME, Drug Discovery and Development,
Regulatory Expert.
Washington DC, USA.

Topic
Drug Discovery and Development: The Role of DMPK and
Clinical Pharmacology.

Venue: Seminar Hall, School of Pharmacy, NNRG. **Time:** 1.30AM-3.00PM

Dr. Srinivas R. Chennamaneni engaged students during the guest lecture on Drug Discovery.


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