



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Report on Guest Lecture: "Elements of GLP & Its Regulations"

Date of Lecture: 04/01/2025

Guest Speaker: Dr. Challa Suresh,
Scientist 'F' & Senior Deputy Director,
Professor & Co-ordinator AcSIR – Faculty of Medical Research,
HOD Cell Biology Division, ICMR-NIN, MHFW, Govt. Of India.

Event Organized by: Department of Regulatory Affairs

Venue: Auditorium, S.N.V.P.M.V.

Introduction

The guest lecture on the topic "Elements of GLP & Its Regulations" was delivered by Dr. Challa Suresh, an expert in the field of regulatory compliance and good laboratory practices (GLP). The session aimed to provide an in-depth understanding of the principles, elements, and regulatory framework that define GLP, a critical standard for laboratories involved in non-clinical studies, particularly in pharmaceutical, biotechnology, and chemical industries.

Overview of GLP

Good Laboratory Practices (GLP) refer to a set of principles intended to ensure the quality and integrity of non-clinical laboratory studies, which support the safety and efficacy of products. GLP was initially developed by regulatory agencies, such as the U.S. Food and Drug Administration (FDA) and the Organization for Economic Co-operation and Development (OECD), to ensure that laboratory data used for product development is reliable, reproducible, and accurately documented. The speaker emphasized that GLP is not a one-size-fits-all approach but rather a set of practices that ensure uniformity and transparency across the laboratory environment. Its application is crucial in ensuring that products—especially chemicals, drugs, and cosmetics—are safe for public use.

Key Elements of GLP

The guest speaker outlined the core elements of GLP as follows:



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Organization and Personnel:

Roles and Responsibilities: GLP requires clear definitions of personnel roles and responsibilities. The laboratory should have a structured hierarchy that ensures accountability, with a designated study director overseeing each study.

Qualification of Personnel: Personnel involved in studies must possess appropriate qualifications, including training in GLP guidelines, and must demonstrate competence in their specific roles.

Facilities and Equipment:

Laboratory Environment: GLP mandates that the physical infrastructure should support the integrity and reliability of study data. Laboratories must be well-maintained, and equipment must be calibrated regularly to ensure accurate results.

Preventive Maintenance: Equipment used in non-clinical studies must undergo routine maintenance and servicing to prevent failures during critical study periods.

Standard Operating Procedures (SOPs):

SOPs are essential for ensuring that each task is carried out consistently, efficiently, and in compliance with GLP regulations. These procedures outline how experiments should be conducted, how data should be recorded, and how any deviations from the standard process should be handled.

Study Protocols:

Each study must begin with a detailed protocol that includes objectives, methodologies, and the expected outcomes. The protocol must be reviewed and approved by the relevant authorities before the study begins. This ensures that the study is properly planned, scientifically valid, and compliant with GLP guidelines.

Data Management:

Accurate Documentation: Proper record-keeping is one of the fundamental components of GLP. All data, whether raw or summarized, must be recorded in a manner that is both traceable and retrievable. Any changes to records should be documented and justified.



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Data Integrity: The speaker emphasized that maintaining data integrity is paramount to the credibility of the study results. This involves preventing unauthorized alterations and ensuring that data is preserved for a specified retention period.

Quality Assurance and Auditing:

Independent Review: GLP mandates that an independent quality assurance unit (QAU) is responsible for auditing the study at different stages to ensure compliance with all aspects of GLP. The QAU ensures that studies are being carried out according to the study protocol and relevant regulations.

Audits: Regular audits should be conducted to verify that all procedures, from the planning stage to final data analysis, align with GLP standards.

Regulatory Compliance:

GLP regulations are enforced by regulatory agencies such as the FDA (USA), the European Medicines Agency (EMA), and the OECD. These agencies ensure that laboratories adhere to GLP standards to ensure the safety and efficacy of products entering the market.

Animal Welfare:

In studies involving animals, GLP guidelines require that animal welfare standards are strictly adhered to. Ethical considerations, such as minimizing pain and distress, must be addressed in the study protocol.

GLP Regulations

The guest speaker also highlighted key regulatory frameworks and guidelines that govern GLP practices:

OECD Principles of GLP: The speaker discussed the OECD's 1997 "Council Decision C(97)186/FINAL" and how it serves as an international standard for GLP. The principles outline the need for clear documentation, qualified personnel, and consistent procedures.

FDA and EPA GLP Regulations: In the United States, GLP guidelines are enforced by agencies such as the FDA and the Environmental Protection Agency (EPA), especially in the testing of pharmaceuticals, pesticides, and food additives.



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International Harmonization: The speaker mentioned the importance of harmonization of GLP standards across countries to facilitate mutual acceptance of study data. Countries like Japan, Canada, and the European Union have their own GLP guidelines, but they closely align with the OECD framework.

Challenges in GLP Compliance

The speaker also discussed common challenges in GLP compliance, including:

Lack of Training: Without proper training in GLP regulations, lab personnel may unintentionally deviate from required protocols, leading to errors.

Costs and Resources: Implementing and maintaining GLP-compliant practices can be costly and resource-intensive, particularly for smaller laboratories.

Keeping Up with Regulatory Changes: Regulations can change over time, requiring constant updates to procedures and documentation.

Conclusion

In conclusion, the guest lecture provided a thorough understanding of the elements of GLP and the associated regulations. The guest speaker highlighted the importance of GLP in ensuring the reliability and safety of non-clinical study data and discussed the frameworks that guide GLP compliance. Attendees were encouraged to apply these practices to their own work environments, as adherence to GLP not only ensures regulatory compliance but also enhances the credibility of research outcomes.

The lecture was highly informative and engaging, providing the audience with a practical understanding of GLP's role in scientific research and product development. The session concluded with a Q&A segment where attendees had the opportunity to clarify their doubts and share experiences related to GLP in their respective fields.

We thank our chairman Dr. B.Prabha Shankar, management, director, principal for their continuous support in organizing such events. We thank faculty and students of B.Pharm and M.Pharm for making this guest lecture a grand success.



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NBA ACCREDITED B. PHARMACY COURSE



GUEST LECTURE ON
"ELEMENTS OF GLP AND IT'S REGULATIONS"
ORGANISED BY
Department of Pharmaceutical Regulatory Affairs



SPEAKER:
Dr. Challa Suresh
M.sc., Ph.D(Biochemistry), D.Sc. (Biotechnology),
Scientist 'F' & Senior Deputy Director,
Professor and coordinator Ac FIR - Faculty of Medical
research, HCC Cell Biology Division
ICMR-National Institute of Nutrition
Ministry of Health and Family Welfare, Govt of India

JANUARY 04, 2025
2:00 p.m onwards
↑ **SNVPMV**
Auditorium

Presided by
Dr. B. Prabha Shankar
Chairman, SNVPMV

Seminar Coordinator:
Dr. M. Swetha
Associate Professor &
Head
Department of
Pharmaceutical Regulatory
Affairs

Dr. T. Mamatha | **Dr. N. Srinivas** | **Sri. B. Hanumanth Rao**
Principal | **Director** | **Hony. Secretary**



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Lat 17.430224° Long 78.532398°
04/01/25 02:24 PM GMT +05:30

GPS Map Camera



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Lat 17.430211° Long 78.532359°
04/01/25 03:19 PM GMT +05:30

GPS Map Camera

FAMOUS EXAMPLE

- One of the labs that went under such an investigation made headlines near.
- The name of the lab was Industrial Bio Test. This was a big lab that ran tests for big companies such as Procter and Gamble.
- It was discovered that mice that they had used to test cosmetics such as soaps and deodorants had developed cancer and died.
- Industrial Bio Test lab threw the dead mice and covered results keeping the products good for human consumption.
- These involved in production, distribution and sales for the lab eventually served jail time.



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